

TRAINING REGULATIONS

CARPENTRY NC III



CONSTRUCTION SECTOR (CIVIL WORKS)

TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY
East Service Road, South Luzon Expressway (SLEX), Taguig City, Metro Manila

*Technical Education and Skills Development Act of 1994
(Republic Act No. 7796)*

Section 22, “Establishment and Administration of the National Trade Skills Standards” of the RA 7796 known as the TESDA Act mandates TESDA to establish national occupational skill standards. The Authority shall develop and implement a certification and accreditation program in which private industry group and trade associations are accredited to conduct approved trade tests, and the local government units to promote such trade testing activities in their respective areas in accordance with the guidelines to be set by the Authority.

The Training Regulations (TR) serves as basis for:

1. Development of curriculum and assessment tools;
2. Registration and delivery of training programs; and
3. Establishment of competency assessment and certification arrangements.

Each TR has four sections:

- Section 1 **Definition of Qualification** - describes the qualification and defines the competencies that comprise the qualification.
- Section 2 **The Competency Standards** format was revised to include the Required Knowledge and Required Skills per element. These fields explicitly state the required knowledge and skills for competent performance of a unit of competency in an informed and effective manner. These also emphasize the application of knowledge and skills to situations where understanding is converted into a workplace outcome.
- Section 3 **Training Arrangements** – contain the information and requirements which serve as bases for training providers in designing and delivering competency-based curriculum for the qualification. The revisions to Section 3 entail identifying the Learning Activities leading to achievement of the identified Learning Outcome.
- Section 4 **Assessment and Certification Arrangements** - describe the policies governing assessment and certification procedures for the qualification.

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TRAINING REGULATIONS FOR

CARPENTRY NC III

SECTION 1 CARPENTRY NC III QUALIFICATION

The **CARPENTRY NC III** qualification consists of competencies on specialized carpentry that a person must achieve in installation of architectural walls, ceilings and floors, using different types of materials.

This Qualification is packaged from the competency map of Construction – Civil Works sub-sector as shown in Annex A.

The units of competency comprising this qualification include the following:

CODE NO.	BASIC COMPETENCIES
400311319	Lead workplace communication
400311320	Lead small teams
400311321	Apply critical thinking and problem-solving techniques in the workplace
400311322	Work in a diverse environment
400311323	Propose methods of applying learning and innovation in the organization
400311324	Use information systematically
400311325	Evaluate occupational safety and health work practices
400311326	Evaluate environmental work practices
400311327	Facilitate entrepreneurial skills for micro-small-medium enterprises (MSMEs)
CODE NO.	COMMON COMPETENCIES
CON931201	Prepare construction materials and tools
CON311201	Observe procedures, specifications and manuals of instruction
CON311202	Interpret technical drawings and plans
CON311203	Perform mensurations and calculations
CON311204	Maintain tools and equipment
CODE NO.	CORE COMPETENCIES
CON711309	Install decorative moldings
CON711310	Install ceiling frames and panels or acoustical ceiling
CON711311	Install eaves or soffits frames and panels and vents assembly
CON711312	Install partition wall and/or cladding frames and boards
CON711313	Install laminate floors
CON711314	Install parquet floors

A person who has achieved this Qualification is competent to be a –

- Specialized Carpenter

SECTION 2 COMPETENCY STANDARDS

This section gives the details and contents of the units of competency required in **CARPENTRY NC III**. These units of competency are categorized into basic, common and core competencies.

BASIC COMPETENCIES

UNIT OF COMPETENCY : LEAD WORKPLACE COMMUNICATION

UNIT CODE : 400311319

UNIT DESCRIPTOR : This unit covers the knowledge, skills and attitudes required to lead in the effective dissemination and discussion of ideas, information, and issues in the workplace. This includes preparation of written communication materials.

ELEMENT	PERFORMANCE CRITERIA <i>Italicized terms</i> are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
1. Communicate information about workplace processes	1.1 Relevant communication method is selected based on workplace procedures 1.2 Multiple operations involving several topics/areas are communicated following enterprise requirements 1.3 Questioning is applied to gain extra information 1.4 Relevant sources of information are identified in accordance with workplace/ client requirements 1.5 Information is selected and organized following enterprise procedures 1.6 Verbal and written reporting is undertaken when required 1.7 Communication and negotiation skills are applied and maintained in all relevant situations	1.1. Organization requirements for written and electronic communication methods 1.2. Effective verbal communication methods 1.3. Business writing 1.4. Workplace etiquette	1.1 Organizing information 1.2 Conveying intended meaning 1.3 Participating in a variety of workplace discussions 1.4 Complying with organization requirements for the use of written and electronic communication methods 1.5 Effective business writing 1.6 Effective clarifying and probing skills 1.7 Effective questioning techniques (clarifying and probing)

ELEMENT	PERFORMANCE CRITERIA <i>Italicized terms</i> are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
2. Lead workplace discussions	2.1 Response to workplace issues are sought following enterprise procedures 2.2 Response to workplace issues are provided immediately 2.3 Constructive contributions are made to workplace discussions on such issues as production, quality and safety 2.4 Goals/ objectives and action plans undertaken in the workplace are communicated promptly	2.1 Organization requirements for written and electronic communication methods 2.2 Effective verbal communication methods 2.3 Workplace etiquette	2.1 Organizing information 2.2 Conveying intended meaning 2.3 Participating in variety of workplace discussions 2.4 Complying with organization requirements for the use of written and electronic communication methods 2.5 Effective clarifying and probing skills
3. Identify and communicate issues arising in the workplace	3.1 Issues and problems are identified as they arise 3.2 Information regarding problems and issues are organized coherently to ensure clear and effective communication 3.3 Dialogue is initiated with appropriate personnel 3.4 Communication problems and issues are raised as they arise 3.5 Identify barriers in communication to be addressed appropriately	3.1 Organization requirements for written and electronic communication methods 3.2 Effective verbal communication methods 3.3 Workplace etiquette 3.4 Communication problems and issues 3.5 Barriers in communication	3.1 Organizing information 3.2 Conveying intended meaning 3.3 Participating in a variety of workplace discussions 3.4 Complying with organization requirements for the use of written and electronic communication methods 3.5 Effective clarifying and probing skills 3.6 Identifying issues 3.7 Negotiation and communication skills

RANGE OF VARIABLES

VARIABLE	RANGE
1. Methods of communication	May include: 1.1. Non-verbal gestures 1.2. Verbal 1.3. Face-to-face 1.4. Two-way radio 1.5. Speaking to groups 1.6. Using telephone 1.7. Written 1.8. Internet
2. Workplace discussions	May include: 2.1. Coordination meetings 2.2. Toolbox discussion 2.3. Peer-to-peer discussion

EVIDENCE GUIDE

1. Critical aspects of Competency	Assessment requires evidence that the candidate: 1.1 Dealt with a range of communication/information at one time 1.2 Demonstrated leadership skills in workplace communication 1.3 Made constructive contributions in workplace issues 1.4 Sought workplace issues effectively 1.5 Responded to workplace issues promptly 1.6 Presented information clearly and effectively written form 1.7 Used appropriate sources of information 1.8 Asked appropriate questions 1.9 Provided accurate information
2. Resource Implications	The following resources should be provided: 2.1 Variety of Information 2.2 Communication tools 2.3 Simulated workplace
3. Methods of Assessment	Competency in this unit may be assessed through: Case problem 3.1. Third-party report 3.2. Portfolio 3.3. Interview 3.4. Demonstration/Role-playing
4. Context for Assessment	4.1. Competency may be assessed in the workplace or in a simulated workplace environment

UNIT OF COMPETENCY : LEAD SMALL TEAMS

UNIT CODE : 400311320

UNIT DESCRIPTOR : This unit covers the knowledge, skills and attitudes to lead small teams including setting, maintaining and monitoring team and individual performance standards.

ELEMENT	PERFORMANCE CRITERIA <i>Italicized terms</i> are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
1. Provide team leadership	1.1 Work requirements are identified and presented to team members based on company policies and procedures 1.2 Reasons for instructions and requirements are communicated to team members based on company policies and procedures 1.3 Team members' and leaders' concerns are recognized, discussed and dealt with based on company practices	1.1 Facilitation of Team work 1.2 Company policies and procedures relating to work performance 1.3 Performance standards and expectations 1.4 Monitoring individual's and team's performance vis a vis client's and group's expectations	1.1 Communication skills required for leading teams 1.2 Group facilitation skills 1.3 Negotiating skills 1.4 Setting performance expectation
2. Assign responsibilities	2.1. Responsibilities are allocated having regard to the skills, knowledge and aptitude required to undertake the assigned task based on company policies. 2.2. Duties are allocated having regard to individual preference, domestic and	2.1 Work plan and procedures 2.2 Work requirements and targets 2.2 Individual and group expectations and assignments 2.3 Ways to improve group leadership and membership	2.1 Communication skills 2.2 Management skills 2.3 Negotiating skills 2.4 Evaluation skills 2.5 Identifying team member's strengths and rooms for improvement

ELEMENT	PERFORMANCE CRITERIA <i>Italicized terms</i> are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
	personal considerations, whenever possible		
3. Set performance expectations for team members	3.1 Performance expectations are established based on client needs 3.2 Performance expectations are based on individual team members knowledge, skills and aptitude 3.3 Performance expectations are discussed and disseminated to individual team members	3.1 One's roles and responsibilities in the team 3.2 Feedback giving and receiving 3.3 Performance expectation	3.1 Communication skills 3.2 Accurate empathy 3.3 Congruence 3.4 Unconditional positive regard 3.5 Handling of Feedback
4. Supervise team performance	4.1 Performance is monitored based on defined performance criteria and/or assignment instruction 4.2 Team members are provided with feedback , positive support and advice on strategies to overcome any deficiencies based on company practices 4.3 Performance issues which cannot be rectified or addressed within the team are referred to appropriate personnel according to employer policy 4.4 Team members	4.1 Performance Coaching 4.2 Performance management 4.3 Performance Issues	4.1 Communication skills required for leading teams 4.2 Coaching skill

ELEMENT	PERFORMANCE CRITERIA <i>Italicized terms</i> are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
	<p>are kept informed of any changes in the priority allocated to assignments or tasks which might impact on client/customer needs and satisfaction</p> <p>4.5 Team operations are monitored to ensure that employer/client needs and requirements are met</p> <p>4.6 Follow-up communication is provided on all issues affecting the team</p> <p>4.7 All relevant documentation is completed in accordance with company procedures</p>		

RANGE OF VARIABLES

VARIABLE	RANGE
1. Work requirements	May include: 1.1. Client Profile 1.2. Assignment instructions
2. Team member's concerns	May include: 2.1. Roster/shift details
3. Monitor performance	May include: 3.1. Formal process 3.2. Informal process
4. Feedback	May include: 4.1. Formal process 4.2. Informal process
5. Performance issues	May include: 5.1. Work output 5.2. Work quality 5.3. Team participation 5.4. Compliance with workplace protocols 5.5. Safety 5.6. Customer service

EVIDENCE GUIDE

<p>1. Critical aspects of Competency</p>	<p>Assessment requires evidence that the candidate:</p> <ul style="list-style-type: none"> 1.1. Maintained or improved individuals and/or team performance given a variety of possible scenario 1.2. Assessed and monitored team and individual performance against set criteria 1.3. Represented concerns of a team and individual to next level of management or appropriate specialist and to negotiate on their behalf 1.4. Allocated duties and responsibilities, having regard to individual's knowledge, skills and aptitude and the needs of the tasks to be performed 1.5. Set and communicated performance expectations for a range of tasks and duties within the team and provided feedback to team members
<p>2. Resource Implications</p>	<p>The following resources should be provided:</p> <ul style="list-style-type: none"> 2.1. Access to relevant workplace or appropriately simulated environment where assessment can take place 2.2. Materials relevant to the proposed activity or task
<p>3. Methods of Assessment</p>	<p>Competency in this unit may be assessed through:</p> <ul style="list-style-type: none"> 3.1. Written Examination 3.2. Oral Questioning 3.3. Portfolio
<p>4. Context for Assessment</p>	<p>4.1 Competency may be assessed in actual workplace or at the designated TESDA Accredited Assessment Center.</p>

UNIT OF COMPETENCY : APPLY CRITICAL THINKING AND PROBLEM-SOLVING TECHNIQUES IN THE WORKPLACE

UNIT CODE : 400311321

UNIT DESCRIPTOR : This unit covers the knowledge, skills and attitudes required to solve problems in the workplace including the application of problem solving techniques and to determine and resolve the root cause/s of specific problems in the workplace.

ELEMENTS	PERFORMANCE CRITERIA <i>Italicized terms</i> are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
1. Examine specific workplace challenges	1.1 Variances are examined from normal operating parameters ; and product quality. 1.2 Extent, cause and nature of the specific problem are defined through observation, investigation and analytical techniques . 1.3 Problems are clearly stated and specified.	1.1 Competence includes a thorough knowledge and understanding of the process, normal operating parameters, and product quality to recognize non-standard situations. 1.2 Competence to include the ability to apply and explain, enough for the identification of fundamental causes of specific workplace challenges. 1.3 Relevant equipment and operational processes. 1.4 Enterprise goals, targets and measures. 1.5 Enterprise quality OHS and environmental requirement. 1.6 Enterprise information systems and data collation 1.7 Industry codes and standards.	1.1 Using range of analytical techniques (e.g., planning, attention, simultaneous and successive processing of information) in examining specific challenges in the workplace. 1.2 Identifying extent and causes of specific challenges in the workplace.
	PERFORMANCE		

ELEMENTS	CRITERIA <i>Italicized terms</i> are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
2. Analyze the causes of specific workplace challenges.	<p>2.1 Possible causes of specific problems are identified based on experience and the use of problem solving tools / analytical techniques.</p> <p>2.2 Possible cause statements are developed based on findings.</p> <p>2.3 Fundamental causes are identified per results of investigation conducted.</p>	<p>2.1 Competence includes a thorough knowledge and understanding of the process, normal operating parameters, and product quality to recognize non-standard situations.</p> <p>2.2 Competence to include the ability to apply and explain, sufficient for the identification of fundamental cause, determining the corrective action and provision of recommendations.</p> <p>2.3 Relevant equipment and operational processes.</p> <p>2.4 Enterprise goals, targets and measures.</p> <p>2.5 Enterprise quality OSH and environmental requirement.</p> <p>2.6 Enterprise information systems and data collation.</p> <p>2.7 Industry codes and standards.</p>	<p>2.1 Using range of analytical techniques (e.g., planning, attention, simultaneous and successive processing of information) in examining specific challenges in the workplace.</p> <p>2.2 Identifying extent and causes of specific challenges in the workplace.</p> <p>2.3 Providing clear-cut findings on the nature of each identified workplace challenges.</p>

ELEMENTS	PERFORMANCE CRITERIA <i>Italicized terms</i> are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
3. Formulate resolutions to specific workplace challenges	3.1 All possible options are considered for resolution of the problem. 3.2 Strengths and weaknesses of possible options are considered. 3.3 Corrective actions are determined to resolve the problem and possible future causes. 3.4 Action plans are developed identifying measurable objectives, resource needs and timelines in accordance with safety and operating procedures	3.1 Competence to include the ability to apply and explain, sufficient for the identification of fundamental cause, determining the corrective action and provision of recommendations 3.2 Relevant equipment and operational processes 3.3 Enterprise goals, targets and measures 3.4 Enterprise quality OSH and environmental requirement 3.5 Principles of decision making strategies and techniques 3.6 Enterprise information systems and data collation 3.7 Industry codes and standards	3.1 Using range of analytical techniques (e.g., planning, attention, simultaneous and successive processing of information) in examining specific challenges in the workplace. 3.2 Identifying extent and causes of specific challenges in the workplace. 3.3 Providing clear-cut findings on the nature of each identified workplace challenges. 3.4 Devising, communicating, implementing and evaluating strategies and techniques in addressing specific workplace challenges.

ELEMENTS	PERFORMANCE CRITERIA <i>Italicized terms</i> are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
4. Implement action plans and communicate results	4.1 Action plans are implemented and evaluated. 4.2 Results of plan implementation and recommendations are prepared. 4.2 Recommendations are presented to appropriate personnel. 4.3 Recommendations are followed-up, if required.	4.1 Competence to include the ability to apply and explain, sufficient for the identification of fundamental cause, determining the corrective action and provision of recommendations 4.2. Relevant equipment and operational processes 4.3 Enterprise goals, targets and measures 4.4 Enterprise quality, OSH and environmental requirement 4.5 Principles of decision making strategies and techniques 4.6 Enterprise information systems and data collation 4.7 Industry codes and standards	4.1 Using range of analytical techniques (e.g., planning, attention, simultaneous and successive processing of information) in examining specific challenges in the workplace. 4.2 Identifying extent and causes of specific challenges in the workplace. 4.3 Providing clear-cut findings on the nature of each identified workplace challenges. 4.4 Devising, communicating, implementing and evaluating strategies and techniques in addressing specific workplace challenges.

RANGE OF VARIABLES

VARIABLE	RANGE
1. Parameters	May include: 1.1 Processes 1.2 Procedures 1.3 Systems
2. Analytical techniques	May include: 2.1. Brainstorming 2.2. Intuitions/Logic 2.3. Cause and effect diagrams 2.4. Pareto analysis 2.5. SWOT analysis 2.6. Gant chart, Pert CPM and graphs 2.7. Scattergrams
3. Problem	May include: 3.1. Routine, non – routine and complex workplace and quality problems 3.2. Equipment selection, availability and failure 3.3. Teamwork and work allocation problem 3.4. Safety and emergency situations and incidents 3.5. Risk assessment and management
4. Action plans	May include: 4.1. Priority requirements 4.2. Measurable objectives 4.3. Resource requirements 4.4. Timelines 4.5. Co-ordination and feedback requirements 4.6. Safety requirements 4.7. Risk assessment 4.8. Environmental requirements

EVIDENCE GUIDE

<p>1. Critical aspects of Competency</p>	<p>Assessment requires evidence that the candidate:</p> <ol style="list-style-type: none"> 1.1. Examined specific workplace challenges. 1.2. Analyzed the causes of specific workplace challenges. 1.3. Formulated resolutions to specific workplace challenges. 1.4. Implemented action plans and communicated results on specific workplace challenges.
<p>2. Resource Implications</p>	<p>2.1. Assessment will require access to an operating plant over an extended period of time, or a suitable method of gathering evidence of operating ability over a range of situations. A bank of scenarios / case studies / what ifs will be required as well as bank of questions which will be used to probe the reason behind the observable action.</p>
<p>3. Methods of Assessment</p>	<p>Competency in this unit may be assessed through:</p> <ol style="list-style-type: none"> 3.1. Observation 3.2. Case Formulation 3.3. Life Narrative Inquiry 3.4. Standardized test <p>The unit will be assessed in a holistic manner as is practical and may be integrated with the assessment of other relevant units of competency. Assessment will occur over a range of situations, which will include disruptions to normal, smooth operation. Simulation may be required to allow for timely assessment of parts of this unit of competency. Simulation should be based on the actual workplace and will include walk through of the relevant competency components.</p> <p>These assessment activities should include a range of problems, including new, unusual and improbable situations that may have happened.</p>
<p>4. Context for Assessment</p>	<p>In all workplace, it may be appropriate to assess this unit concurrently with relevant teamwork or operation units.</p>

UNIT OF COMPETENCY : WORK IN A DIVERSE ENVIRONMENT

UNIT CODE : 400311322

UNIT DESCRIPTOR : This unit covers the outcomes required to work effectively in a workplace characterized by diversity in terms of religions, beliefs, races, ethnicities and other differences.

ELEMENT	PERFORMANCE CRITERIA <i>Italicized terms</i> are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
1. Develop an individual's cultural awareness and sensitivity	1.1 Individual differences with clients, customers and fellow workers are recognized and respected in accordance with enterprise policies and core values. 1.2 Differences are responded to in a sensitive and considerate manner 1.3 Diversity is accommodated using appropriate verbal and non-verbal communication.	1.1 Understanding cultural diversity in the workplace 1.2 Norms of behavior for interacting and dialogue with specific groups (e. g., Muslims and other non-Christians, non-Catholics, tribes/ethnic groups, foreigners) 1.3 Different methods of verbal and non-verbal communication in a multicultural setting	1.1 Applying cross-cultural communication skills (i.e. different business customs, beliefs, communication strategies) 1.2 Showing affective skills – establishing rapport and empathy, understanding, etc. 1.3 Demonstrating openness and flexibility in communication 1.4 Recognizing diverse groups in the workplace and community as defined by divergent culture, religion, traditions and practices

ELEMENT	PERFORMANCE CRITERIA <i>Italicized terms</i> are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
2. Work effectively in an environment that acknowledges and values cultural diversity	<p>2.1 Knowledge, skills and experiences of others are recognized and documented in relation to team objectives.</p> <p>2.2 Fellow workers are encouraged to utilize and share their specific qualities, skills or backgrounds with other team members and clients to enhance work outcomes.</p> <p>2.3 Relations with customers and clients are maintained to show that diversity is valued by the business.</p>	<p>2.1 Value of diversity in the economy and society in terms of Workforce development</p> <p>2.2 Importance of inclusiveness in a diverse environment</p> <p>2.3 Shared vision and understanding of and commitment to team, departmental, and organizational goals and objectives</p> <p>2.4 Strategies for customer service excellence</p>	<p>2.1 Demonstrating cross-cultural communication skills and active listening</p> <p>2.2 Recognizing diverse groups in the workplace and community as defined by divergent culture, religion, traditions and practices</p> <p>2.3 Demonstrating collaboration skills</p> <p>2.4 Exhibiting customer service excellence</p>

ELEMENT	PERFORMANCE CRITERIA <i>Italicized terms</i> are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
3. Identify common issues in a multicultural and diverse environment	<p>3.1 Diversity-related conflicts within the workplace are effectively addressed and resolved.</p> <p>3.2 Discriminatory behaviors towards customers/stakeholders are minimized and addressed accordingly.</p> <p>3.3 Change management policies are in place within the organization.</p>	<p>3.1 Value, and leverage of cultural diversity</p> <p>3.2 Inclusivity and conflict resolution</p> <p>3.3 Workplace harassment</p> <p>3.4 Change management and ways to overcome resistance to change</p> <p>3.5 Advanced strategies for customer service excellence</p>	<p>3.1 Addressing diversity-related conflicts in the workplace</p> <p>3.2 Eliminating discriminatory behavior towards customers and co-workers</p> <p>3.3 Utilizing change management policies in the workplace</p>

RANGE OF VARIABLES

VARIABLE	RANGE
1. Diversity	This refers to diversity in both the workplace and the community and may include divergence in : 1.1 Religion 1.2 Ethnicity, race or nationality 1.3 Culture 1.4 Gender, age or personality 1.5 Educational background
2. Diversity-related conflicts	May include conflicts that result from: 2.1 Discriminatory behaviors 2.2 Differences of cultural practices 2.3 Differences of belief and value systems 2.4 Gender-based violence 2.5 Workplace bullying 2.6 Corporate jealousy 2.7 Language barriers 2.8 Individuals being differently-abled persons 2.9 Ageism (negative attitude and behavior towards old people)

EVIDENCE GUIDE

1. Critical aspects of Competency	Assessment requires evidence that the candidate: 1.1 Adjusted language and behavior as required by interactions with diversity 1.2 Identified and respected individual differences in colleagues, clients and customers 1.3 Applied relevant regulations, standards and codes of practice
2. Resource Implications	The following resources should be provided: 2.1 Access to workplace and resources 2.2 Manuals and policies on Workplace Diversity
3. Methods of Assessment	Competency in this unit may be assessed through: 3.1 Demonstration or simulation with oral questioning 3.2 Group discussions and interactive activities 3.3 Case studies/problems involving workplace diversity issues 3.4 Third-party report 3.5 Written examination 3.6 Role Plays
4. Context for Assessment	Competency assessment may occur in workplace or any appropriately simulated environment

UNIT OF COMPETENCY : PROPOSE METHODS OF APPLYING LEARNING AND INNOVATION IN THE ORGANIZATION

UNIT CODE : 400311323

UNIT DESCRIPTOR : This unit covers the knowledge, skills and attitudes required to assess general obstacles in the application of learning and innovation in the organization and to propose practical methods of such in addressing organizational challenges.

ELEMENTS	PERFORMANCE CRITERIA <i>Italicized terms</i> are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
1. Assess work procedures, processes and systems in terms of innovative practices	1.1. Reasons for innovation are incorporated to work procedures. 1.2. Models of innovation are researched. 1.3. Gaps or barriers to innovation in one's work area are analyzed. 1.4. Staff who can support and foster innovation in the work procedure are identified.	1.1 Seven habits of highly effective people. 1.2 Character strengths that foster innovation and learning (Christopher Peterson and Martin Seligman, 2004) 1.3 Five minds of the future concepts (Gardner, 2007). 1.4 Adaptation concepts in neuroscience (Merzenich, 2013). 1.5 Transtheoretical model of behavior change (Prochaska, DiClemente, & Norcross, 1992).	1.1 Demonstrating collaboration and networking skills. 1.2 Applying basic research and evaluation skills 1.3 Generating insights on how to improve organizational procedures, processes and systems through innovation.

ELEMENTS	PERFORMANCE CRITERIA <i>Italicized terms</i> are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
2. Generate practical action plans for improving work procedures, processes	<p>2.1 Ideas for innovative work procedure to foster innovation using individual and group techniques are conceptualized</p> <p>2.2 Range of ideas with other team members and colleagues are evaluated and discussed</p> <p>2.3 Work procedures and processes subject to change are selected based on workplace requirements (feasible and innovative).</p> <p>2.4 Practical action plans are proposed to facilitate simple changes in the work procedures, processes and systems.</p> <p>2.5 Critical inquiry is applied and used to facilitate discourse on adjustments in the simple work procedures, processes and systems.</p>	<p>2.1 Seven habits of highly effective people.</p> <p>2.2 Character strengths that foster innovation and learning (Christopher Peterson and Martin Seligman, 2004)</p> <p>2.3 Five minds of the future concepts (Gardner, 2007).</p> <p>2.4 Adaptation concepts in neuroscience (Merzenich, 2013).</p> <p>2.5 Transtheoretical model of behavior change (Prochaska, DiClemente, & Norcross, 1992).</p>	<p>2.1 Assessing readiness for change on simple work procedures, processes and systems.</p> <p>2.2 Generating insights on how to improve organizational procedures, processes and systems through innovation.</p> <p>2.3 Facilitating action plans on how to apply innovative procedures in the organization.</p>

ELEMENTS	PERFORMANCE CRITERIA <i>Italicized terms</i> are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
3. Evaluate the effectiveness of the proposed action plans	3.1 Work structure is analyzed to identify the impact of the new work procedures 3.2 Co-workers/key personnel is consulted to know who will be involved with or affected by the work procedure 3.3 Work instruction operational plan of the new work procedure is developed and evaluated. 3.4 Feedback and suggestion are recorded. 3.5 Operational plan is updated. 3.6 Results and impact on the developed work instructions are reviewed 3.7 Results of the new work procedure are evaluated 3.8 Adjustments are recommended based on results gathered	3.1 Five minds of the future concepts (Gardner, 2007). 3.2 Adaptation concepts in neuroscience (Merzenich, 2013). 3.3 Transtheoretical model of behavior change (Prochaska, DiClemente, & Norcross, 1992).	3.1 Generating insights on how to improve organizational procedures, processes and systems through innovation. 3.2 Facilitating action plans on how to apply innovative procedures in the organization. 3.3 Communicating results of the evaluation of the proposed and implemented changes in the workplace procedures and systems. 3.4 Developing action plans for continuous improvement on the basic systems, processes and procedures in the organization.

RANGE OF VARIABLES

VARIABLE	RANGE
1. Reasons	May include: 1.1 Strengths and weaknesses of the current systems, processes and procedures. 1.2 Opportunities and threats of the current systems, processes and procedures.
2. Models of innovation	May include: 2.1 Seven habits of highly effective people. 2.2 Five minds of the future concepts (Gardner, 2007). 2.3 Neuroplasticity and adaptation strategies.
3. Gaps or barriers	May include: 3.1 Machine 3.2 Manpower 3.3 Methods 3.4 Money
4. Critical Inquiry	May include: 4.1 Preparation. 4.2 Discussion. 4.3 Clarification of goals. 4.4 Negotiate towards a Win-Win outcome. 4.5 Agreement. 4.6 Implementation of a course of action. 4.7 Effective verbal communication. See our pages: Verbal Communication and Effective Speaking. 4.8 Listening. 4.9 Reducing misunderstandings is a key part of effective negotiation. 4.10 Rapport Building. 4.11 Problem Solving. 4.12 Decision Making. 4.13 Assertiveness. 4.14 Dealing with Difficult Situations.

EVIDENCE GUIDE

<p>1. Critical aspects of Competency</p>	<p>Assessment requires evidence that the candidate:</p> <ul style="list-style-type: none"> • Established the reasons why innovative systems are required • Established the goals of a new innovative system • Analyzed current organizational systems to identify gaps and barriers to innovation. • Assessed work procedures, processes and systems in terms of innovative practices. • Generate practical action plans for improving work procedures, and processes. <p>1.1 Reviewed the trial innovative work system and adjusted reflect evaluation feedback, knowledge management systems and future planning.</p> <p>1.2 Evaluated the effectiveness of the proposed action plans.</p>
<p>2. Resource Implications</p>	<p>The following resources should be provided:</p> <p>2.1 Pens, papers and writing implements.</p> <p>2.2 Cartolina.</p> <p>2.3 Manila papers.</p>
<p>3. Methods of Assessment</p>	<p>Competency in this unit may be assessed through:</p> <p>3.1 Psychological and behavioral Interviews.</p> <p>3.2 Performance Evaluation.</p> <p>3.3 Life Narrative Inquiry.</p> <p>3.4 Review of portfolios of evidence and third-party workplace reports of on-the-job performance.</p> <p>3.5 Sensitivity analysis.</p> <p>3.6 Organizational analysis.</p> <p>3.7 Standardized assessment of character strengths and virtues applied.</p>
<p>4. Context for Assessment</p>	<p>4.1 Competency may be assessed individually in the actual workplace or simulation environment in TESDA accredited institutions.</p>

UNIT OF COMPETENCY : USE INFORMATION SYSTEMATICALLY

UNIT CODE : 400311324

UNIT DESCRIPTOR : This unit covers the knowledge, skills and attitudes required to use technical information systems, apply information technology (IT) systems and edit, format & check information.

ELEMENT	PERFORMANCE CRITERIA <i>Italicized terms</i> are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
1. Use technical information	1.1. Information are collated and organized into a suitable form for reference and use 1.2. Stored information are classified so that it can be quickly identified and retrieved when needed 1.3. Guidance are advised and offered to people who need to find and use information	1.1. Application in collating information 1.2. Procedures for inputting, maintaining and archiving information 1.3. Guidance to people who need to find and use information 1.4. Organize information 1.5. classify stored information for identification and retrieval 1.6. Operate the technical information system by using agreed procedures	1.1. Collating information 1.2. Operating appropriate and valid procedures for inputting, maintaining and archiving information 1.3. Advising and offering guidance to people who need to find and use information 1.4. Organizing information into a suitable form for reference and use 1.5. Classifying stored information for identification and retrieval 1.6. Operating the technical information system by using agreed procedures

ELEMENT	PERFORMANCE CRITERIA <i>Italicized terms</i> are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
2. Apply information technology (IT)	2.1. Technical information system is operated using agreed procedures 2.2. Appropriate and valid procedures are operated for inputting, maintaining and archiving information 2.3. Software required are utilized to execute the project activities 2.4. Information and data obtained are handled, edited, formatted and checked from a range of internal and external sources 2.5. Information are extracted, entered, and processed to produce the outputs required by customers 2.6. Own skills and understanding are shared to help others 2.7. Specified security measures are implemented to protect the confidentiality and integrity of project data held in IT systems	2.1. Attributes and limitations of available software tools 2.2. Procedures and work instructions for the use of IT 2.3. Operational requirements for IT systems 2.4. Sources and flow paths of data 2.5. Security systems and measures that can be used 2.6. Extract data and format reports 2.7. Methods of entering and processing information 2.8. WWW enabled applications	2.1. Identifying attributes and limitations of available software tools 2.2. Using procedures and work instructions for the use of IT 2.3. Describing operational requirements for IT systems 2.4. Identifying sources and flow paths of data 2.5. Determining security systems and measures that can be used 2.6. Extracting data and format reports 2.7. Describing methods of entering and processing information 2.8. Using WWW applications

ELEMENT	PERFORMANCE CRITERIA <i>Italicized terms</i> are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
3. Edit, format and check information	3.1 Basic editing techniques are used 3.2 Accuracy of documents are checked 3.3 Editing and formatting tools and techniques are used for more complex documents 3.4 Proof reading techniques is used to check that documents look professional	3.1 Basic file-handling techniques 3.2 Techniques in checking documents 3.3 Techniques in editing and formatting 3.4 Proof reading techniques	3.1 Using basic file-handling techniques is used for the software 3.2 Using different techniques in checking documents 3.3 Applying editing and formatting techniques 3.4 Applying proof reading techniques

RANGE OF VARIABLES

VARIABLE	RANGE
1. Information	May include: 1.1. Property 1.2. Organizational 1.3. Technical reference
2. Technical information	May include: 2.1. paper based 2.2. electronic
3. Software	May include: 3.1. spreadsheets 3.2. databases 3.3. word processing 3.4. presentation
4. Sources	May include: 4.1. other IT systems 4.2. manually created 4.3. within own organization 4.4. outside own organization 4.5. geographically remote
5. Customers	May include: 5.1. colleagues 5.2. company and project management 5.3. clients
6. Security measures	May include: 6.1. access rights to input; 6.2. passwords; 6.3. access rights to outputs; 6.4. data consistency and back-up; 6.5. recovery plans

EVIDENCE GUIDE

1. Critical aspects of Competency	Assessment requires evidence that the candidate: 1.1. Used technical information systems and information technology 1.2. Applied information technology (IT) systems 1.3. Edited, formatted and checked information
2. Resource Implications	The following resources should be provided: 2.1. Computers 2.2. Software and IT system
3. Methods of Assessment	Competency in this unit should be assessed through: 3.1. Direct Observation 3.2. Oral interview and written test
4. Context for Assessment	4.1. Competency may be assessed individually in the actual workplace or through accredited institution

UNIT OF COMPETENCY : **EVALUATE OCCUPATIONAL SAFETY AND HEALTH WORK PRACTICES**

UNIT CODE : **400311325**

UNIT DESCRIPTOR : This unit covers the knowledge, skills and attitudes required to interpret-Occupational Safety and Health practices, set OSH work targets, and evaluate effectiveness of Occupational Safety and Health work instructions

ELEMENT	PERFORMANCE CRITERIA <i>Italicized terms</i> are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
1. Interpret Occupational Safety and Health practices	1.1 OSH work practices issues are identified relevant to work requirements 1.2 OSH work standards and procedures are determined based on applicability to nature of work 1.3 Gaps in work practices are identified related to relevant OSH work standards	1.1. OSH work practices issues 1.2. OSH work standards 1.3. General OSH principles and legislations 1.4. Company/ workplace policies/ guidelines 1.5. Standards and safety requirements of work process and procedures	1.1. Communication skills 1.2. Interpersonal skills 1.3. Critical thinking skills 1.4. Observation skills
2. Set OSH work targets	2.1 Relevant work information are gathered necessary to determine OSH work targets 2.2 OSH Indicators based on gathered information are agreed upon to measure effectiveness of workplace OSH policies and procedures 2.3 Agreed OSH indicators are endorsed for approval from appropriate personnel 2.4 OSH work instructions are received in accordance with workplace policies and procedures*	2.1. OSH work targets 2.2. OSH Indicators 2.3. OSH work instructions 2.4. Safety and health requirements of tasks 2.5. Workplace guidelines on providing feedback on OSH and security concerns 2.6. OSH regulations Hazard control procedures 2.7. OSH trainings relevant to work	2.1. Communication skills 2.2. Collaborating skills 2.3. Critical thinking skills 2.4. Observation skills

ELEMENT	PERFORMANCE CRITERIA <i>Italicized terms</i> are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
3. Evaluate effectiveness of Occupational Safety and Health work instructions	3.1 OSH Practices are observed based on workplace standards 3.2 Observed OSH practices are measured against approved OSH metrics 3.3 Findings regarding effectiveness are assessed and gaps identified are implemented based on OSH work standards	3.1. OSH Practices 3.2. OSH metrics 3.3. OSH Evaluation Techniques 3.4. OSH work standards	3.1. Critical thinking skills 3.2. Evaluating skills

RANGE OF VARIABLES

VARIABLE	RANGE
1. OSH Work Practices Issues	May include: <ul style="list-style-type: none"> 1.1 Workers' experience/observance on presence of work hazards 1.2 Unsafe/unhealthy administrative arrangements (prolonged work hours, no break-time, constant overtime, scheduling of tasks) 1.3 Reasons for compliance/non-compliance to use of PPEs or other OSH procedures/policies/ guidelines
2. OSH Indicators	May include: <ul style="list-style-type: none"> 2.1 Increased of incidents of accidents, injuries 2.2 Increased occurrence of sickness or health complaints/symptoms 2.3 Common complaints of workers' related to OSH 2.4 High absenteeism for work-related reasons
3. OSH Work Instructions	May include: <ul style="list-style-type: none"> 3.1 Preventive and control measures, and targets 3.2 Eliminate the hazard (i.e., get rid of the dangerous machine) 3.3 Isolate the hazard (i.e. keep the machine in a closed room and operate it remotely; barricade an unsafe area off) 3.4 Substitute the hazard with a safer alternative (i.e., replace the machine with a safer one) 3.5 Use administrative controls to reduce the risk (i.e. give trainings on how to use equipment safely; OSH-related topics, issue warning signages, rotation/shifting work schedule) 3.6 Use engineering controls to reduce the risk (i.e. use safety guards to machine) 3.7 Use personal protective equipment 3.8 Safety, Health and Work Environment Evaluation 3.9 Periodic and/or special medical examinations of workers
4. OSH metrics	May include: <ul style="list-style-type: none"> 4.1 Statistics on incidence of accident and injuries 4.2 Morbidity (Type and Number of Sickness) 4.3 Mortality (Cause and Number of Deaths) 4.4 Accident Rate

EVIDENCE GUIDE

<p>1. Critical aspects of Competency</p>	<p>Assessment requires evidence that the candidate:</p> <ol style="list-style-type: none"> 1.1. Identify OSH work practices issues relevant to work requirements 1.2. Identify gaps in work practices related to relevant OSH work standards 1.3. Agree upon OSH Indicators based on gathered information to measure effectiveness of workplace OSH policies and procedures 1.4. Receive OSH work instructions in accordance with workplace policies and procedures 1.5. Compare Observed OSH practices with against approved OSH work instructions 1.6. Assess findings regarding effectiveness based on OSH work standards
<p>2. Resource Implications</p>	<p>The following resources should be provided:</p> <ol style="list-style-type: none"> 2.1 Facilities, materials, tools and equipment necessary for the activity
<p>3. Methods of Assessment</p>	<p>Competency in this unit may be assessed through:</p> <ol style="list-style-type: none"> 3.1 Observation/Demonstration with oral questioning 3.2 Third party report 3.3 Written exam
<p>4. Context for Assessment</p>	<ol style="list-style-type: none"> 4.1 Competency may be assessed in the work place or in a simulated work place setting

UNIT OF COMPETENCY : EVALUATE ENVIRONMENTAL WORK PRACTICES

UNIT CODE : 400311326

UNIT DESCRIPTOR : This unit covers the knowledge, skills and attitude to interpret environmental Issues, establish targets to evaluate environmental practices and evaluate effectiveness of environmental practices

ELEMENTS	PERFORMANCE CRITERIA <i>Italicized terms</i> are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
1. Interpret environmental practices, policies and procedures	1.1 <i>Environmental work practices</i> issues are identified relevant to work requirements 1.2 Environmental Standards and Procedures nature of work are determined based on Applicability to nature of work 1.3 Gaps in work practices related to Environmental Standards and Procedures are identified	1.1 Environmental Issues 1.2 Environmental Work Procedures 1.3 Environmental Laws 1.4 Environmental Hazardous and Non-Hazardous Materials 1.5 Environmental required license, registration or certification	1.1. Analyzing Environmental Issues and Concerns 1.2. Critical thinking 1.3. Problem Solving 1.4. Observation Skills
2. Establish targets to evaluate environmental practices	2.1. Relevant information are gathered necessary to determine environmental work targets 2.2. <i>Environmental Indicators</i> based on gathered information are set to measure environmental work targets 2.3. Indicators are verified with appropriate personnel	2.1. Environmental Indicators 2.2. Relevant Environment Personnel or expert 2.3. Relevant Environmental Trainings and Seminars	2.1. Investigative Skills 2.2. Critical thinking 2.3. Problem Solving 2.4. Observation Skills

ELEMENTS	PERFORMANCE CRITERIA <i>Italicized terms</i> are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
3. Evaluate effectiveness of environmental practices	3.1. Work environmental practices are recorded based on workplace standards 3.2. Recorded work environmental practices are compared against planned indicators 3.3. Findings regarding effectiveness are assessed and gaps identified are implemented based on environment work standards and procedures 3.4. Results of environmental assessment are conveyed to appropriate personnel	1.1. Environmental Practices 1.2. Environmental Standards and Procedures	3.1 Documentation and Record Keeping Skills 3.2 Critical thinking 3.3 Problem Solving 3.4 Observation Skills

RANGE OF VARIABLES

VARIABLE	RANGE
1. Environmental Practices Issues	May include: 1.1 Water Quality 1.2 National and Local Government Issues 1.3 Safety 1.4 Endangered Species 1.5 Noise 1.6 Air Quality 1.7 Historic 1.8 Waste 1.9 Cultural
2. Environmental Indicators	May include: 2.1 Noise level 2.2 Lighting (Lumens) 2.3 Air Quality - Toxicity 2.4 Thermal Comfort 2.5 Vibration 2.6 Radiation 2.7 Quantity of the Resources 2.8 Volume

EVIDENCE GUIDE

<p>1. Critical aspects of Competency</p>	<p>Assessment requires evidence that the candidate:</p> <ul style="list-style-type: none"> 1.1. Identified environmental issues relevant to work requirements 1.2. Identified gaps in work practices related to Environmental Standards and Procedures 1.3. Gathered relevant information necessary to determine environmental work targets 1.4. Set environmental indicators based on gathered information to measure environmental work targets 1.5. Recorded work environmental practices are recorded based on workplace standards 1.6. Conveyed results of environmental assessment to appropriate personnel
<p>2. Resource Implications</p>	<p>The following resources should be provided:</p> <ul style="list-style-type: none"> 2.1 Workplace/Assessment location 2.2 Legislation, policies, procedures, protocols and local ordinances relating to environmental protection 2.3 Case studies/scenarios relating to environmental protection
<p>3. Methods of Assessment</p>	<p>Competency in this unit may be assessed through:</p> <ul style="list-style-type: none"> 3.1 Written/ Oral Examination 3.2 Interview/Third Party Reports 3.3 Portfolio (citations/awards from GOs and NGOs, certificate of training – local and abroad) 3.4 Simulations and role-plays
<p>4. Context for Assessment</p>	<p>4.1 Competency may be assessed in actual workplace or at the designated TESDA center.</p>

UNIT OF COMPETENCY : FACILITATE ENTREPRENEURIAL SKILLS FOR MICRO-SMALL-MEDIUM ENTERPRISES (MSMEs)

UNIT CODE : 400311327

UNIT DESCRIPTOR : This unit covers the outcomes required to build, operate and grow a micro/small-scale enterprise.

ELEMENT	PERFORMANCE CRITERIA <i>Italicized terms</i> are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
1. Develop and maintain micro-small-medium enterprise (MSMEs) skills in the organization	1.1 Appropriate business strategies are determined and set for the enterprise based on current and emerging business environment. 1.2 Business operations are monitored and controlled following established procedures. 1.3 Quality assurance measures are implemented consistently. 1.4 Good relations are maintained with staff/workers. 1.5 Policies and procedures on occupational safety and health and environmental concerns are constantly observed.	1.1 Business models and strategies 1.2 Types and categories of businesses 1.3 Business operation 1.4 Basic Bookkeeping 1.5 Business internal controls 1.6 Basic quality control and assurance concepts 1.7 Government and regulatory processes	1.1 Basic bookkeeping/accounting skills 1.2 Communication skills 1.3 Building relations with customer and employees 1.4 Building competitive advantage of the enterprise
2. Establish and maintain client-base/market	2.1 Good customer relations are maintained 2.2 New customers and markets are identified, explored and reached out to. 2.3 Promotions/Incentives are offered to loyal customers 2.4 Additional products and services are evaluated and tried where feasible. 2.5 Promotional/advertising initiatives are carried out where necessary and feasible.	2.1 Public relations concepts 2.2 Basic product promotion strategies 2.3 Basic market and feasibility studies 2.4 Basic business ethics	2.1 Building customer relations 2.2 Individual marketing skills 2.3 Using basic advertising (posters/ tarpaulins, flyers, social media, etc.)

ELEMENT	PERFORMANCE CRITERIA <i>Italicized terms</i> are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
3. Apply budgeting and financial management skills	3.1 Enterprise is built up and sustained through judicious control of cash flows. 3.2 Profitability of enterprise is ensured through appropriate <i>internal controls</i> . 3.3 Unnecessary or lower-priority expenses and purchases are avoided.	3.1 Cash flow management 3.1 Basic financial management 3.2 Basic financial accounting 3.3 Business internal controls	3.1 Setting business priorities and strategies 3.2 Interpreting basic financial statements 3.3 Preparing business plans

RANGE OF VARIABLES

VARIABLE	RANGE
1. Business strategies	May include: 1.1. Developing/Maintaining niche market 1.2. Use of organic/healthy ingredients 1.3. Environment-friendly and sustainable practices 1.4. Offering both affordable and high-quality products and services 1.5. Promotion and marketing strategies (e. g., on-line marketing)
2. Business operations	May include: 2.1 Purchasing 2.2 Accounting/Administrative work 2.3 Production/Operations/Sales
3. Internal controls	May include: 3.1 Accounting systems 3.2 Financial statements/reports 3.3 Cash management
4. Promotional/Advertising initiatives	May include: 4.1 Use of tarpaulins, brochures, and/or flyers 4.2 Sales, discounts and easy payment terms 4.3 Use of social media/Internet 4.4 "Service with a smile" 4.5 Extra attention to regular customers

EVIDENCE GUIDE

<p>1. Critical aspects of competency</p>	<p>Assessment requires evidence that the candidate :</p> <ul style="list-style-type: none"> 1.1 Demonstrated basic entrepreneurial skills 1.2 Demonstrated ability to conceptualize and plan a micro/small enterprise 1.3 Demonstrated ability to manage/operate a micro/small-scale business
<p>2. Resource Implications</p>	<p>The following resources should be provided:</p> <ul style="list-style-type: none"> 2.1 Simulated or actual workplace 2.2 Tools, materials and supplies needed to demonstrate the required tasks 2.3 References and manuals
<p>3. Methods of Assessment</p>	<p>Competency in this unit may be assessed through :</p> <ul style="list-style-type: none"> 3.1 Written examination 3.2 Demonstration/observation with oral questioning 3.3 Portfolio assessment with interview 3.4 Case problems
<p>4. Context of Assessment</p>	<ul style="list-style-type: none"> 1.1 Competency may be assessed in workplace or in a simulated workplace setting 1.2 Assessment shall be observed while tasks are being undertaken whether individually or in-group

COMMON COMPETENCIES

UNIT OF COMPETENCY : **PREPARE CONSTRUCTION MATERIALS AND TOOLS**

UNIT CODE : **CON931201**

UNIT DESCRIPTOR : This unit covers the knowledge, skills and attitudes on identifying, requesting and receiving construction materials and tools in various workplace settings.

ELEMENT	PERFORMANCE CRITERIA <i>Italicized terms are elaborated in the Range of Variable</i>	REQUIRED KNOWLEDGE	REQUIRED SKILLS
1. Identify materials	1.1 Materials are identified as per job requirements 1.2 Quantity and <i>description of materials and tools</i> conform with the job requirements 1.3 Tools and accessories are identified according to job requirements	1.1 Different work specifications 1.2 Types and uses of carpentry tools and accessories	1.1 Identifying tools and accessories according to the job requirements
2. Prepare requisition of materials	2.1 <i>Materials and tools</i> needed are requested according to the identified requirements 2.2 Request is done as per <i>company standard operating procedures (SOP)</i> 2.3 Substitute materials and tools are provided without sacrificing cost and quality of work	2.1 Work requirements 2.2 Types and uses of carpentry tools and accessories 2.3 Material take-off 2.4 Requisition procedures	2.1 Preparing material take-off 2.2 Requesting materials and tools
3. Receive and inspect materials	3.1 Materials and tools issued are inspected as per quantity and specification 3.2 Tools, accessories and materials are checked 3.3 Materials and tools are set aside to appropriate location	3.1 Policy on receiving material deliveries 3.2 Material and tools quality and defects 3.3 Material handling	3.1 Checking and inspecting materials and tools 3.2 Storing/ stacking of tool and materials

RANGE OF VARIABLES

VARIABLE	RANGE
1. Description of materials and tools	May include: 1.1 Brand name 1.2 Size 1.3 Capacity 1.4 Kind of application
2. Tools and accessories	May include: 2.1 Electrical supplies 2.2 Mechanical supplies 2.3 Cleaning supplies
3. Company standard operating procedures	May include: 3.1 Job order 3.2 Requisition slip 3.3 Borrower slip

EVIDENCE GUIDE

<p>1. Critical aspects of Competency</p>	<p>Assessment requires evidence that the candidate:</p> <p>1.1 Listed materials and tools according to quantity and job requirements</p> <p>1.2 Requested materials and tools according to the list prepared and as per company SOP</p> <p>1.3 Inspected issued materials and tools as per quantity and job specifications</p> <p>1.4 Provided tools with safety devices</p>
<p>2. Resource Implications</p>	<p>The following resources should be provided:</p> <p>2.1 Workplace location</p> <p>2.2 Materials relevant to the unit of competency</p> <p>2.3 Plans, drawings and specifications relevant to the activities</p>
<p>3. Methods of Assessment</p>	<p>Competency in this unit may be assessed through:</p> <p>3.1 Direct observation/Demonstration with oral questioning</p>
<p>4. Context of Assessment</p>	<p>4.1 Competency may be assessed in actual workplace or at the designated TESDA Accredited Assessment Center</p>

UNIT OF COMPETENCY : **OBSERVE PROCEDURES, SPECIFICATIONS AND MANUALS OF INSTRUCTIONS**

UNIT CODE : **CON311201**

UNIT DESCRIPTOR : This unit covers the knowledge, skills and attitudes on identifying, interpreting, applying services to specifications and manuals and storing manuals.

ELEMENT	PERFORMANCE CRITERIA <i>Italicized terms are elaborated in the Range of Variables</i>	REQUIRED KNOWLEDGE	REQUIRED SKILLS
1. Identify and access specification/ manuals	1.1 Appropriate manuals are identified and accessed as per job requirements 1.2 Version and date of manual are checked to ensure that correct specification and procedures are identified	1.1 Types of manuals used in carpentry 1.2 Identification of symbols used in the manuals	1.1 Identifying manuals and specifications 1.2 Accessing information and data
2. Interpret manuals	2.1 Relevant sections, chapters of specifications/ manuals are located in relation to the work to be conducted 2.2 Information and procedure in the manual are interpreted in accordance with industry practices	2.1 Types of manuals used in carpentry 2.2 Types of symbols used in manuals 2.3 System of measurements 2.4 Unit conversion	2.1 Interpreting symbols and specifications 2.2 Accessing information and data 2.3 Applying conversion of units of measurements

ELEMENT	PERFORMANCE CRITERIA <i>Italicized terms are elaborated in the Range of Variables</i>	REQUIRED KNOWLEDGE	REQUIRED SKILLS
3. Apply information in manual	3.1 Manual is interpreted according to job requirements 3.2 Work steps are correctly identified in accordance with manufacturer's specification 3.3 Manual data are applied according to the given task 3.4 All correct sequencing and adjustments are interpreted in accordance with information contained on the manual or specifications	3.1 Types of manuals used in carpentry 3.2 Types and application of symbols in manuals 3.3 Unit conversion	3.1 Applying information from manuals
4. Store manuals	4.1 Manual or specification is stored appropriately to prevent damage, ready access and updating of information when required in accordance with company requirements	4.1 Types of manuals used in carpentry 4.2 Manual storing and maintaining procedures	4.1 Storing and maintaining manuals

RANGE OF VARIABLES

VARIABLE	RANGE
1. Manual	May include: 1.1 Manufacturer's Specification Manual 1.2 Maintenance Procedure Manual 1.3 Periodic Maintenance Manual

EVIDENCE GUIDE

1. Critical aspects of competency	Assessment requires that the candidate: 1.1 Identified and accessed specification/manuals as per job requirements 1.2 Interpreted manuals in accordance with industry practices 1.3 Applied information in manuals according to the given task 1.4 Stored manuals in accordance with company requirements
2. Resource implications	The following resources should be provided: 2.1 All manuals/catalogues relative to construction sector
3. Methods of assessment	Competency in this unit may be assessed through: 3.1 Direct observation/Demonstration with Oral Questioning
4. Context of assessment	4.1 Competency may be assessed in actual workplace or at the designated TESDA Accredited Assessment Center

UNIT OF COMPETENCY : **INTERPRET TECHNICAL DRAWINGS AND PLANS**

UNIT CODE : **CON311202**

UNIT DESCRIPTOR : This unit covers the knowledge, skills and attitudes in analyzing and interpreting symbols, data and work plan based on the required performance standards.

ELEMENTS	PERFORMANCE CRITERIA <i>Italicized terms are elaborated in the Range of Variables</i>	REQUIRED KNOWLEDGE	REQUIRED SKILLS
1. Analyze signs, symbols and data	1.1 Signs, symbols and data are identified according to job specifications 1.2 Signs, symbols and data are determined according to site regulations	1.1 Signs and symbols 1.2 Rules and regulations	1.1 Interpreting working drawing
2. Interpret drawings and plans	2.1 Necessary tools and materials are identified according to the work plan 2.2 Supplies and materials are listed according to specifications 2.3 Components, assemblies or objects are recognized as required 2.4 Dimensions are identified as appropriate to the plan 2.5 Specification details are matched with existing/available resources and in line with job requirements	2.1 Systems of measurement 2.2 Linear measurement 2.3 Dimension 2.4 Unit conversion	2.1 Interpreting drawing 2.2 Matching specification details with existing resources

RANGE OF VARIABLES

VARIABLE	RANGE
1. Signs and symbols	May include: 1.1 Speed limit 1.2 Direction/Road 1.3 Warnings
2. Site regulations	May include: 2.1 Instructions 2.2 Signages 2.3 Work schedules 2.4 Work bulletin boards 2.5 Charts 2.6 Memos 2.7 Site Map 2.8 Emergency response plan 2.9 Permits
3. Tools and materials	May include: 3.1 Rulers 3.2 Protractor 3.3 Steel tape 3.4 Calculator 3.5 Pen Marker/ Pencil/Chalk stone
4. Work plan	May include: 4.1 Job requirements 4.2 Installation instructions 4.3 Components instruction

EVIDENCE GUIDE

1. Critical aspects of competency	<p>Assessment requires that the candidate:</p> <p>1.1 Identified and determined signs, symbols and data according to work plan and job requirements</p> <p>1.2 Identified tools and materials in accordance with job requirements</p> <p>1.3 Demonstrated ability to determine job specifications based on working drawing</p>
2. Resource Implications	<p>The following resources should be provided:</p> <p>2.4 Workplace</p> <p>2.5 Drawings and specification relevant to task</p> <p>2.6 Materials and instrument relevant to proposed activity</p>
3. Methods of Assessment	<p>Competency in this unit may be assessed through:</p> <p>3.1 Direct observation/Demonstration with Oral Questioning</p> <p>3.2 Written Examination</p>
4. Context of Assessment	<p>4.1 Competency may be assessed in actual workplace or at the designated TESDA Accredited Assessment Center.</p>

UNIT OF COMPETENCY : **PERFORM MENSURATIONS AND CALCULATIONS**

UNIT CODE : **CON311203**

UNIT DESCRIPTOR : This unit covers the knowledge, skills and attitudes on identifying and measuring objects based on the required performance standards.

ELEMENT	PERFORMANCE CRITERIA <i>Italicized terms are elaborated in the Range of Variable</i>	REQUIRED KNOWLEDGE	REQUIRED SKILLS
1. Select measuring instruments	1.1 Object or component to be measured is identified, classified and interpreted according to the appropriate regular <i>geometric shape</i> 1.2 Measuring tools are selected/identified as per object to be measured or job requirements 1.3 Correct specifications are obtained from relevant sources 1.4 <i>Measuring instruments</i> are selected according to job requirements 1.5 Alternative measuring tools are used without sacrificing cost and quality of work	1.1 Types of measuring tools and its uses	1.1 Selecting measuring instruments

ELEMENT	PERFORMANCE CRITERIA <i>Italicized terms are elaborated in the Range of Variable</i>	REQUIRED KNOWLEDGE	REQUIRED SKILLS
2. Carry out measurements and calculations	2.1 Measurements are obtained according to job requirements 2.2 Alternative measuring tools are used without sacrificing cost and quality of work 2.3 Calculations needed to complete work tasks are performed using the four basic process of addition (+), subtraction (-), multiplication (x) and division (/) 2.4 Calculations involving fractions, percentages and mixed numbers are used to complete workplace tasks 2.5 Numerical computation is self-checked and corrected for accuracy 2.6 Instruments are read to the limit of accuracy of the tool 2.7 Systems of measurement identified and converted according to job requirements/ISO 2.8 Workpieces are measured according to job requirements	2.1 Linear measurement 2.2 Geometrical measurement 2.3 Unit conversion 2.4 Ratio and proportion 2.5 Area	2.1 Interpreting formulas for volume, areas, perimeters of plane and geometric figures 2.2 Handling of measuring instruments

RANGE OF VARIABLES

VARIABLE	RANGE
1. Geometric shape	May include: 1.1 Round 1.2 Square 1.3 Rectangular 1.4 Triangle 1.5 Sphere 1.6 Conical
2. Measuring instruments	May include: 2.1 Micrometer (In-out, depth) 2.2 Vernier caliper (out, inside) 2.3 Thickness gauge 2.4 Torque gauge 2.5 Small hole gauge 2.6 Try-square 2.7 Protractor 2.8 Steel ruler 2.9 Voltmeter 2.10 Ammeter 2.11 Gauges 2.12 Thermometers
3. Measurements and calculations	May include: 3.1 Linear 3.2 Volume 3.3 Area 3.4 Wattage 3.5 Voltage 3.6 Amperage 3.7 Inside diameter 3.8 Length 3.9 Thickness 3.10 Outside diameter 3.11 Density

EVIDENCE GUIDE

1. Critical aspects of competency	<p>Assessment requires that the candidate:</p> <p>1.1 Selected and prepared appropriate measuring instruments in accordance with job requirements</p> <p>1.2 Performed measurements and calculations according to job requirements/ ISO</p>
2. Resource implications	<p>The following resources should be provided:</p> <p>2.1 Workplace location</p> <p>2.2 Problems to solve</p> <p>2.3 Measuring instrument appropriate to carry out tasks</p> <p>2.4 Instructional materials relevant to the propose activity</p>
3. Methods of assessment	<p>Competency in this unit may be assessed through:</p> <p>3.1 Direct observation/Demonstration with Oral Questioning</p>
4. Context of assessment	<p>4.1 Competency may be assessed in actual workplace or at the designated TESDA Accredited Assessment Center</p>

UNIT OF COMPETENCY : MAINTAIN TOOLS AND EQUIPMENT

UNIT CODE : CON311204

UNIT DESCRIPTOR : This unit covers the knowledge, skills and attitudes on checking condition, performing preventive maintenance and storing of construction painting tools and equipment.

ELEMENT	PERFORMANCE CRITERIA <i>Italicized terms are elaborated in the Range of Variables</i>	REQUIRED KNOWLEDGE	REQUIRED SKILLS
1. Check condition of tools and equipment	1.1 Materials, tools and equipment are identified according to classification and job requirements 1.2 Non-functional tools and equipment are segregated and labeled according to classification 1.3 Safety of tools and equipment are observed in accordance with manufacturer's instructions 1.4 Condition of Personal Protective Equipment (PPE) are checked in accordance with manufacturer's instructions	1.1 Use of PPE 1.2 Handling of tools and equipment 1.3 Good housekeeping 1.4 Types and uses of lubricants 1.5 Types and uses of cleaning materials	1.1 Maintaining tools and equipment 1.2 Handling of tools and equipment 1.3 Identifying tools and equipment defects

ELEMENT	PERFORMANCE CRITERIA <i>Italicized terms are elaborated in the Range of Variables</i>	REQUIRED KNOWLEDGE	REQUIRED SKILLS
2. Perform basic preventive maintenance	2.1 Appropriate lubricants are identified according to types of equipment 2.2 Tools and equipment are lubricated according to preventive maintenance schedule or manufacturer's specifications 2.3 Measuring instruments are checked and calibrated in accordance with manufacturer's instructions 2.4 Tools are cleaned and lubricated according to standard procedures 2.5 Defective instruments, equipment and accessories are inspected and replaced according to manufacturer's specifications 2.6 Tools are inspected, repaired and replaced after use 2.7 Work place is cleaned and kept in safe state in line with Occupational Safety and Health (OSHS)	2.1 Use of PPE 2.2 Handling of tools and equipment 2.3 Good housekeeping 2.4 Types and uses of lubricants 2.5 Types and uses of cleaning materials 2.6 Methods and techniques 2.7 Procedures	2.1 Handling of tools and equipment 2.2 Performing preventive maintenance

ELEMENT	PERFORMANCE CRITERIA <i>Italicized terms are elaborated in the Range of Variables</i>	REQUIRED KNOWLEDGE	REQUIRED SKILLS
3. Store tools and equipment	3.1 Inventory of tools, instruments and equipment are conducted and recorded as per company practices 3.2 Tools and equipment are stored safely in appropriate locations in accordance with manufacturer's specifications or company procedures	3.1 Use of PPE 3.2 Handling of tools and equipment 3.3 Storing procedures and techniques 3.4 Storage conditions/locations	3.1 Storing tools and equipment 3.2 Handling of tools and equipment

RANGE OF VARIABLES

VARIABLE	RANGE
1. Materials	May include: 1.1 Lubricants 1.2 Cleaning materials 1.3 Rust remover 1.4 Rugs 1.5 Spare parts
2. Tools and equipment	May include: 2.1 Tools Cutting tools - hacksaw, crosscut saw Boring tools - brace, hand drill Holding tools - vise grip, C-clamp, bench vise Threading tools - die and stock, taps 2.2 Measuring instruments/equipment
3. Personal Protective Equipment (PPE)	May include: 3.1 Goggles 3.2 Gloves 3.3 Safety shoes 3.4 Hard hat 3.5 Reflectorized Vest

EVIDENCE GUIDE

<p>1. Critical aspects of competency</p>	<p>Assessment requires that the candidate:</p> <ul style="list-style-type: none"> 1.1 Selected and used appropriate processes, tools and equipment to carry out task 1.2 Identified functional and non-functional tools and equipment 1.3 Checked, lubricated and calibrated tools, equipment and instruments according to manufacturer’s specifications 1.4 Replaced defective tools, equipment and their accessories 1.5 Observed and applied safe handling of tools and equipment and safety work practices 1.6 Prepared and submitted inventory report, where applicable 1.7 Maintained workplace in accordance with OSHA regulations 1.8 Stored tools and equipment safely in appropriate locations and in accordance with company practices
<p>2. Resource implications</p>	<p>The following resources should be provided:</p> <ul style="list-style-type: none"> 2.1 Workplace 2.2 Maintenance schedule 2.3 Maintenance materials, tools and equipment relevant to the proposed activity/task
<p>3. Methods of assessment</p>	<p>Competency in this unit may be assessed through:</p> <ul style="list-style-type: none"> 3.1 Direct observation/Demonstration with Oral Questioning 3.2 Written Examination
<p>4. Context of assessment</p>	<p>4.1 Competency may be assessed in actual workplace or at the designated TESDA Accredited Assessment Center.</p>

CORE COMPETENCIES

UNIT OF COMPETENCY : **INSTALL DECORATIVE MOLDINGS**

UNIT CODE : **CON711309**

UNIT DESCRIPTOR : This unit covers the knowledge, skills, and attitudes in the installation of different kinds and types of moldings.

ELEMENT	PERFORMANCE CRITERIA <i>Italicized terms are elaborated in the Range of Variables</i>	REQUIRED KNOWLEDGE	REQUIRED SKILLS
1. Prepare materials, tools and equipment	<p>1.1 Personal Protective Equipment (PPE) is used in accordance with 1080 of Occupational Safety and Health Standards.</p> <p>1.2 List of materials and tools are secured and followed according to job requirements</p> <p>1.3 Material, tools and equipment are selected, inspected and prepared consistent with job requirements.</p> <p>1.4 Work area is cleaned according to safety and environmental regulations (e.g. PD 1152 Section 6, 8 & 42)</p> <p>1.5 Required output is completed as specified by the immediate supervisor based on work schedule.</p>	<p>1.1 DOLE Department Order No. 13 series 1998 Guidelines Governing Occupational Safety and Health in the Construction Industry</p> <p>1.2 Green Building Concept relative to Construction (3R, 5S)</p> <p>1.3 Safe handling and standard specification of materials, tools and equipment</p> <p>1.4 Company rules and regulations</p> <p>1.5 Mensuration</p> <p>1.6 Safe and effective use of tools</p> <p>1.7 Factors affecting productivity</p> <p>1.8 Productivity work measurements</p> <p>1.9 Ways of improving productivity</p> <p>1.10 Adherence to work requirements</p>	<p>1.1 Using PPE</p> <p>1.2 Communicating effectively</p> <p>1.3 Following company rules and regulations</p> <p>1.4 Organizing materials to be used</p> <p>1.5 Handling and use of materials, tools and equipment</p> <p>1.6 Applying mensuration</p> <p>1.7 Interpreting product manual</p> <p>1.8 Implementing 3R and 5S</p> <p>1.9 Reading and understanding drawings</p>

ELEMENT	PERFORMANCE CRITERIA <i>Italicized terms are elaborated in the Range of Variables</i>	REQUIRED KNOWLEDGE	REQUIRED SKILLS
2. Layout location	<p>2.1 Personal Protective Equipment (PPE) is used in accordance with 1080 of Occupational Safety and Health Standards.</p> <p>2.2 Working platforms, if needed, are erected and stability is ensured based on work requirements and safety standards</p> <p>2.3 Exact location/elevation is marked for moldings based on working drawing</p> <p>2.4 Layout is finalized based on job requirements</p> <p>2.5 Work area is cleaned according to safety and environmental regulations (e.g. PD 1152 Section 6, 8 & 42)</p> <p>2.6 Required output is completed as specified by the immediate supervisor based on work schedule.</p>	<p>2.1 DOLE Department Order No. 13 series 1998 Guidelines Governing Occupational Safety and Health in the Construction Industry</p> <p>2.2 Green Building Concept relative to Construction (5S)</p> <p>2.3 Company rules and regulations</p> <p>2.4 Methods and techniques in measurements</p> <p>2.5 Understanding instructions</p> <p>2.6 Factors affecting productivity</p> <p>2.7 Productivity work measurements</p> <p>2.8 Ways of improving productivity</p> <p>2.9 Adherence to work requirements</p>	<p>2.1 Applying mensuration</p> <p>2.2 Handling and use of materials, tools and equipment</p> <p>2.3 Applying productive methods and techniques</p> <p>2.4 Using PPE</p> <p>2.5 Communicating effectively</p> <p>2.6 Following company rules and regulations</p> <p>2.7 Following instructions</p> <p>2.8 Interpreting product manual</p> <p>2.9 Implementing and 5S</p> <p>2.10 Reading and understanding drawings</p>

ELEMENT	PERFORMANCE CRITERIA <i>Italicized terms are elaborated in the Range of Variables</i>	REQUIRED KNOWLEDGE	REQUIRED SKILLS
3. Cut and fix moldings	<p>3.1 Personal Protective Equipment (PPE) is used in accordance with 1080 of Occupational Safety and Health Standards.</p> <p>3.2 Working platforms, if needed, are erected and stability is ensured based on work requirements and safety standards</p> <p>3.3 Moldings are measured and cut according to desired length</p> <p>3.4 Moldings are positioned and checked as per job requirements</p> <p>3.5 Moldings are fixed/fastened as per job requirements</p> <p>3.6 Work area is cleaned according to safety and environmental regulations (e.g. PD 1152 Section 6, 8 & 42)</p> <p>3.7 Required output is completed as specified by the immediate supervisor based on work schedule.</p>	<p>3.1 DOLE Department Order No. 13 series 1998 Guidelines Governing Occupational Safety and Health in the Construction Industry</p> <p>3.2 Green Building Concept relative to Construction (3R, 5S)</p> <p>3.3 Safe handling and standard specification of materials, tools and equipment</p> <p>3.4 Markings and labels</p> <p>3.5 Company rules and regulations</p> <p>3.6 Mensuration</p> <p>3.7 Installation procedures</p> <p>3.8 Factors affecting productivity</p> <p>3.9 Productivity work measurements</p> <p>3.10 Ways of improving productivity</p>	<p>3.1 Using PPE</p> <p>3.2 Communicating effectively</p> <p>3.3 Following company rules and regulations</p> <p>3.4 Organizing materials to be used</p> <p>3.5 Handling and use of materials and tools</p> <p>3.6 Applying mensuration</p> <p>3.7 Interpreting product manual</p> <p>3.8 Implementing 3R and 5S</p> <p>3.9 Reading and understanding drawings</p>

ELEMENT	PERFORMANCE CRITERIA <i>Italicized terms are elaborated in the Range of Variables</i>	REQUIRED KNOWLEDGE	REQUIRED SKILLS
4. Perform housekeeping	<p>4.1 Personal protective equipment (PPE) is used in accordance with Rule 1080 of Occupational Safety and Health Standards.</p> <p>4.2 Excess/un-used materials are recovered and stockpiled according to company rules and procedures</p> <p>4.1 Work area is cleaned according to safety and environmental regulations(e.g. PD 1152 Section 6, 8 & 42)</p> <p>4.2 Tools and other materials are cleaned after use</p> <p>4.3 Required output is completed as specified by the immediate supervisor based on work schedule.</p>	<p>4.1 DOLE Department Order No. 13 series 1998 Guidelines Governing Occupational Safety and Health in the Construction Industry</p> <p>4.2 Green Building Concept relative to Construction (3R, 5S)</p> <p>4.3 Safe handling and standard specification of materials, tools and equipment</p> <p>4.4 Safety signs and symbols</p> <p>4.5 Adherence to work requirements</p>	<p>4.1 Working safely</p> <p>4.2 Organizing materials to be stored</p> <p>4.3 Handling and use of materials, tools and equipment</p> <p>4.4 Communicating effectively</p> <p>4.5 Using PPE</p> <p>4.6 Implementing 3R and 5S</p>

RANGE OF VARIABLES

VARIABLE	RANGE
1. Personal Protective Equipment (PPE)	May include: 1.1 Hard hat 1.2 Safety shoes 1.3 Gloves 1.4 Working clothes 1.5 Goggles 1.6 Vest
2. Job requirements	May include: 2.1 Approved working drawings 2.2 Sketches/ Shop drawings 2.3 Work instruction
3. Materials, tools and equipment	May include: 2.1 Moldings 2.2 Finishing Nails/screw 2.3 Chalk line box 2.4 Pen Marker/ Pencil/Chalk stone 2.5 Adhesive 2.6 Claw hammer 2.7 Level hose/ level bar 2.8 Pull push rule 2.9 Steel square/Carpenter's square 2.10 Electric Drill 2.11 Philip Screw driver 2.12 Hack Saw 2.13 Scaffolds 2.14 Aluminum ladder 2.15 Portable grinder
3. Working platforms	May include: 3.1 Scaffolds system 3.2 Ladder
4. Moldings	May include: <u>Types of moldings:</u> 3.1 Base boards 3.2 Cornice 3.3 Belts 3.4 Trims <u>Kinds of moldings:</u> 3.5 PVC 3.6 Fiber cement 3.7 Aluminum 3.8 G.I. 3.9 Rubber

EVIDENCE GUIDE

<p>1. Critical aspects of Competency</p>	<p>Assessment requires evidence that the candidate:</p> <ul style="list-style-type: none"> 1.1 Prepared materials and tools 1.2 Laid-out location 1.3 Cut and fixed moldings 1.4 Performed housekeeping 1.5 Communicated with others to ensure effective work operation 1.6 Observed and complied with the productivity requirements 1.7 Complied with attitudinal work requirements
<p>2. Resource implications</p>	<p>The following resources should be provided:</p> <ul style="list-style-type: none"> 2.1 Actual or simulated workplace 2.2 Tools, materials and equipment needed to perform the required tasks 2.3 References and manuals 2.4 PPE 2.5 First Aid Kit
<p>3. Method of assessment</p>	<p>Competency in this unit may be assessed through:</p> <ul style="list-style-type: none"> 3.1 Demonstration/Observation with Oral Questioning
<p>4. Context for assessment</p>	<ul style="list-style-type: none"> 2.1 Competency may be assessed in actual workplace or at the designated TESDA Accredited Assessment Center

UNIT OF COMPETENCY : INSTALL CEILING FRAMES AND PANELS OR ACOUSTICAL CEILING

UNIT CODE : CON711310

UNIT DESCRIPTOR : This unit covers the knowledge, skills, and attitudes in the installation of ceiling frames and board/acoustical ceiling

ELEMENT	PERFORMANCE CRITERIA <i>Italicized terms are elaborated in the Range of Variables</i>	REQUIRED KNOWLEDGE	REQUIRED SKILLS
1. Prepare materials, tools and equipment	<p>1.1 Personal Protective Equipment (PPE) is used in accordance with 1080 of Occupational Safety and Health Standards.</p> <p>1.2 List of materials and tools are secured and followed according to job requirements</p> <p>1.3 Material, tools and equipment are selected, inspected and prepared consistent with job requirements.</p> <p>1.4 Work area is cleaned according to safety and environmental regulations (e.g. PD 1152 Section 6, 8 & 42)</p> <p>1.5 Required output is completed as specified by the immediate supervisor based on work schedule.</p>	<p>1.1 DOLE Department Order No. 13 series 1998 Guidelines Governing Occupational Safety and Health in the Construction Industry</p> <p>1.2 Green Building Concept relative to Construction (3R, 5S)</p> <p>1.3 Safe handling and standard specification of materials, tools and equipment</p> <p>1.4 Signs and symbols</p> <p>1.5 Company rules and regulations</p> <p>1.6 Basic surveying</p> <p>1.7 Factors affecting productivity</p> <p>1.8 Productivity work measurements</p> <p>1.9 Ways of improving productivity</p> <p>1.10 Adherence to work requirements</p>	<p>1.1 Organizing materials to be used</p> <p>1.2 Handling and use of materials, tools and equipment</p> <p>1.3 Using PPE</p> <p>1.4 Communicating effectively</p> <p>1.5 Following company rules and regulations</p> <p>1.6 Interpreting product manual</p> <p>1.7 Implementing 3R and 5S</p> <p>1.8 Reading and understanding drawings</p>

ELEMENT	PERFORMANCE CRITERIA <i>Italicized terms are elaborated in the Range of Variables</i>	REQUIRED KNOWLEDGE	REQUIRED SKILLS
2. Erect scaffolds	<p>2.1 Personal protective equipment (PPE) is used in accordance with Rule 1080 of Occupational Safety and Health Standards</p> <p>2.2 Scaffold systems are erected and stability is ensured based on work requirements and safety standards</p> <p>2.3 Work area is cleaned according to safety and environmental regulations (e.g. PD 1152 Section 6, 8 & 42)</p> <p>2.4 Required output is completed as specified by the immediate supervisor based on work schedule.</p>	<p>2.1 DOLE Department Order No. 13 series 1998 Guidelines Governing Occupational Safety and Health in the Construction Industry</p> <p>2.2 Green Building Concept relative to Construction (3R, 5S)</p> <p>2.3 Working at heights procedures</p> <p>2.4 Safe handling of materials, tools and equipment</p> <p>2.5 Markings and labels</p> <p>2.6 Company rules and regulations</p> <p>2.7 Mensuration</p> <p>2.8 Assembly and erection procedures</p> <p>2.9 Factors affecting productivity</p> <p>2.10 Productivity work measurements</p> <p>2.11 Ways of improving productivity</p>	<p>2.1 Using PPE</p> <p>2.2 Communicating effectively</p> <p>2.3 Following company rules and regulations</p> <p>2.4 Organizing materials to be used</p> <p>2.5 Handling and use of materials, tools and equipment</p> <p>2.6 Complying safety requirements on erection procedure</p> <p>2.7 Implementing 3R and 5S</p> <p>2.8 Reading and understanding drawings</p>

ELEMENT	PERFORMANCE CRITERIA <i>Italicized terms are elaborated in the Range of Variables</i>	REQUIRED KNOWLEDGE	REQUIRED SKILLS
3. Layout ceiling elevation, and position of framing system	<p>3.1 Personal Protective Equipment (PPE) is used in accordance with 1080 of Occupational Safety and Health Standards.</p> <p>3.2 Exact location/elevation is marked for ceiling and framing system based on working drawing</p> <p>3.3 Main framing layout is finalized based on job requirements</p> <p>3.4 Work area is cleaned according to safety and environmental regulations (e.g. PD 1152 Section 6, 8 & 42)</p> <p>3.5 Required output is completed as specified by the immediate supervisor based on work schedule.</p>	<p>3.1 DOLE Department Order No. 13 series 1998 Guidelines Governing Occupational Safety and Health in the Construction Industry</p> <p>3.2 Company rules and regulations</p> <p>3.3 Methods and techniques in measurements</p> <p>3.4 Understanding instructions</p> <p>3.5 Green Building Concept relative to Construction (5S)</p> <p>3.6 Factors affecting productivity</p> <p>3.7 Productivity work measurements</p> <p>3.8 Ways of improving productivity</p> <p>3.9 Adherence to work requirements</p> <p>3.10 5S</p>	<p>3.1 Applying mensuration</p> <p>3.2 Handling and use of materials and tools</p> <p>3.3 Applying productive methods and techniques</p> <p>3.4 Using PPE</p> <p>3.5 Communicating effectively</p> <p>3.6 Following company rules and regulations</p> <p>3.7 Following instructions</p> <p>3.8 Interpreting product manual</p> <p>3.9 Implementing 5S</p> <p>3.10 Reading and understanding drawings</p>

ELEMENT	PERFORMANCE CRITERIA <i>Italicized terms are elaborated in the Range of Variables</i>	REQUIRED KNOWLEDGE	REQUIRED SKILLS
4. Fasten frames and ceiling panels	<p>4.1 Personal Protective Equipment (PPE) is used in accordance with 1080 of Occupational Safety and Health Standards.</p> <p>4.2 Frames and hangers are installed based on specifications and manufacturer's recommendation</p> <p>4.3 Installed frames are checked for squareness, levelness, plumbness and alignment</p> <p>4.4 Ceiling Panels are laid/ fastened to frames based on working drawings, specifications and manufacturer's recommendation</p> <p>4.5 Work area is cleaned according to safety and environmental regulations (e.g. PD 1152 Section 6, 8 & 42)</p> <p>4.6 Required output is completed as specified by the immediate supervisor based on</p>	<p>4.1 DOLE Department Order No. 13 series 1998 Guidelines Governing Occupational Safety and Health in the Construction Industry</p> <p>4.2 Green Building Concept relative to Construction (3R, 5S)</p> <p>4.3 Safe handling and standard specification of materials, tools and equipment</p> <p>4.4 Markings and labels</p> <p>4.5 Company rules and regulations</p> <p>4.6 Mensuration</p> <p>4.7 Installation procedures</p> <p>4.8 Factors affecting productivity</p> <p>4.9 Productivity work measurements</p> <p>4.10 Ways of improving productivity</p> <p>4.11 Adherence to work requirements</p>	<p>4.1 Using PPE</p> <p>4.2 Communicating effectively</p> <p>4.3 Following company rules and regulations</p> <p>4.4 Organizing materials to be used</p> <p>4.5 Handling and use of materials, tools and equipment</p> <p>4.6 Applying mensuration</p> <p>4.7 Interpreting product manual</p> <p>4.8 Implementing 3R and 5S</p> <p>4.9 Reading and understanding drawings</p>

ELEMENT	PERFORMANCE CRITERIA <i>Italicized terms are elaborated in the Range of Variables</i>	REQUIRED KNOWLEDGE	REQUIRED SKILLS
5. Perform housekeeping	<p>5.1 Personal protective equipment (PPE) is used in accordance with Rule 1080 of Occupational Safety and Health Standards.</p> <p>5.2 Excess/un-used materials are recovered and stockpiled according to company rules and procedures</p> <p>4.3 Work area is cleaned according to safety and environmental regulations (e.g. PD 1152 Section 6, 8 & 42)</p> <p>4.4 Tools and other materials are cleaned after use.</p> <p>4.5 Required output is completed as specified by the immediate supervisor based on work schedule.</p>	<p>5.1 DOLE Department Order No. 13 series 1998 Guidelines Governing Occupational Safety and Health in the Construction Industry</p> <p>5.2 Green Building Concept relative to Construction (3R, 5S)</p> <p>5.3 Safe handling and standard specification of materials, tools and equipment</p> <p>5.4 Safety signs and symbols</p> <p>5.5 Adherence to work requirements</p>	<p>5.1 Working safely</p> <p>5.2 Organizing materials to be stored</p> <p>5.3 Handling and use of materials, tools and equipment</p> <p>5.4 Communicating effectively</p> <p>5.5 Using PPE</p> <p>5.6 Implementing 3R and 5S</p>

RANGE OF VARIABLES

VARIABLE	RANGE
1. Personal Protective Equipment (PPE)	May include: 1.1 Hard hat 1.2 Safety shoes 1.3 Gloves 1.4 Working clothes 1.5 Goggles 1.6 Vest 1.1 Full body harness (or alternative fall protection system such as railings/guard rails)
2. Job requirements	May include: 2.1 Approved working drawings 2.2 Sketches/ Shop drawings
3. Materials, tools and equipment	May include: 3.1 G.I. Wires 3.2 Chalk line box 3.3 Pen Marker/ Pen Marker/ Pencil/Chalk stone 3.4 Claw hammer 3.5 Level hose/ level bar 3.6 Pull push rule/ steel tape/ laser meter 3.7 Nylon string 3.8 Plumb bob 3.9 Steel square/Carpenter's square 3.10 Electric drill (Variable speed) 3.11 Drill bit 3.12 Screw bit 3.13 Threaded rod 3.14 Metal furring and accessories 3.15 Tee-runner of different lengths 3.16 Gypsum board 3.17 Fiber cement board 3.18 Acoustic board 3.19 Snips metal cutter 3.20 Rivets 3.21 Riveter 3.22 Cutter 3.23 Scoring knife 3.24 Plier 3.25 Vise grip 3.26 Adjustable wrench

EVIDENCE GUIDE

<p>1. Critical aspect of Competency</p>	<p>Assessment requires evidence that the candidate:</p> <ul style="list-style-type: none"> 1.1 Prepared materials, tools and equipment consistent with job requirements 1.2 Erected scaffolds based on work requirements and safety standards 1.3 Laid-out ceiling elevation and position of framing system based on working drawing 1.4 Fasten frames and ceiling panels based on working drawings, specifications and manufacturer's recommendation 1.5 Performed housekeeping 1.6 Observed and complied with safety and environmental regulations 1.7 Communicated with others to ensure effective work operation 1.8 Observed and complied with the productivity requirements 1.9 Complied with attitudinal work requirements
<p>2. Resource implications</p>	<p>The following resources should be provided:</p> <ul style="list-style-type: none"> 2.1 Actual or simulated workplace 2.2 Tools, materials and equipment needed to perform the required tasks 2.3 References and manuals 2.4 PPE 2.5 First Aid Kit
<p>3. Method of assessment</p>	<p>Competency in this unit may be assessed through:</p> <ul style="list-style-type: none"> 3.1 Demonstration/Observation with Oral Questioning
<p>4. Context for assessment</p>	<ul style="list-style-type: none"> 4.1 Competency may be assessed in actual workplace or at the designated TESDA Accredited Assessment Center

UNIT OF COMPETENCY : **INSTALL EAVES OR SOFFITS FRAMES AND PANELS AND VENTS ASSEMBLY**

UNIT CODE : **CON711311**

UNIT DESCRIPTOR : This unit covers the knowledge, skills, and attitudes in the installation of eaves or soffits frames and panels and vents assembly.

ELEMENT	PERFORMANCE CRITERIA <i>Italicized terms are elaborated in the Range of Variables</i>	REQUIRED KNOWLEDGE	REQUIRED SKILLS
1. Prepare materials, tools and equipment	1.1 Personal protective equipment (PPE) is used in accordance with Rule 1080 of Occupational Safety and Health Standards 1.2 List of materials, tools and equipment are secured according to job requirements 1.3 Materials, tools and equipment are selected, inspected and prepared consistent with job requirements. 1.4 Fabrication and staging area are prepared based on job requirements 1.5 Work area is cleaned according to safety and environmental regulations (e.g. PD 1152 Section 6, 8 & 42) 1.6 Required output is completed as specified by the immediate supervisor based on work schedule.	1.1 DOLE Department Order No. 13 series 1998 Guidelines Governing Occupational Safety and Health in the Construction Industry 1.2 Green Building Concept relative to Construction (3R, 5S) 1.3 Safe handling and standard specification of materials, tools and equipment 1.4 Markings and labels 1.5 Company rules and regulations 1.6 Mensuration 1.7 Safe and effective use of hand tools 1.8 Factors affecting productivity 1.9 Productivity work measurements 1.10 Ways of improving productivity 1.11 Adherence to work requirements	1.1 Using PPE 1.2 Communicating effectively 1.3 Following company rules and regulations 1.4 Organizing materials to be used 1.5 Handling and use of materials, tools and equipment 1.6 Applying mensuration 1.7 Interpreting product manual 1.8 Implementing 3R and 5S 1.9 Reading and understanding drawings

ELEMENT	PERFORMANCE CRITERIA <i>Italicized terms are elaborated in the Range of Variables</i>	REQUIRED KNOWLEDGE	REQUIRED SKILLS
2. Erect scaffolds	<p>2.1 Personal protective equipment (PPE) is used in accordance with Rule 1080 of Occupational Safety and Health Standards</p> <p>2.2 Scaffold systems are erected and stability is ensured based on work requirements and safety standards</p> <p>2.3 Work area is cleaned according to safety and environmental regulations (e.g. PD 1152 Section 6, 8 & 42)</p> <p>2.4 Required output is completed as specified by the immediate supervisor based on work schedule.</p>	<p>2.1 DOLE Department Order No. 13 series 1998 Guidelines Governing Occupational Safety and Health in the Construction Industry</p> <p>2.2 Green Building Concept relative to Construction (3R, 5S)</p> <p>2.3 Working at heights procedures</p> <p>2.4 Safe handling of materials, tools and equipment</p> <p>2.5 Markings and labels</p> <p>2.6 Company rules and regulations</p> <p>2.7 Mensuration</p> <p>2.8 Assembly and erection procedures</p> <p>2.9 Factors affecting productivity</p> <p>2.10 Productivity work measurements</p> <p>2.11 Ways of improving productivity</p>	<p>2.1 Using PPE</p> <p>2.2 Communicating effectively</p> <p>2.3 Following company rules and regulations</p> <p>2.4 Organizing materials to be used</p> <p>2.5 Handling and use of materials, tools and equipment</p> <p>2.6 Complying safety requirements on erection procedure</p> <p>2.7 Implementing 3R and 5S</p> <p>2.8 Reading and understanding drawings</p>

ELEMENT	PERFORMANCE CRITERIA <i>Italicized terms are elaborated in the Range of Variables</i>	REQUIRED KNOWLEDGE	REQUIRED SKILLS
3. Layout eaves or soffits frames and panels and vents assembly elevation, and position of framing system	<p>3.1 Personal Protective Equipment (PPE) is used in accordance with 1080 of Occupational Safety and Health Standards.</p> <p>3.2 Exact location or elevation is marked for eaves or soffits frames and panels and vents assembly based on working drawing</p> <p>3.3 Main framing layout is finalized based on job requirements</p> <p>3.4 Work area is cleaned according to safety and environmental regulations(e.g. PD 1152 Section 6, 8 & 42)</p> <p>3.5 Required output is completed as specified by the immediate supervisor based on work schedule.</p>	<p>3.1 DOLE Department Order No. 13 series 1998 Guidelines Governing Occupational Safety and Health in the Construction Industry</p> <p>3.2 Green Building Concept relative to Construction (5S)</p> <p>3.3 Company rules and regulations</p> <p>3.4 Methods and techniques in measurements</p> <p>3.5 Understanding instructions</p> <p>3.6 Factors affecting productivity</p> <p>3.7 Productivity work measurements</p> <p>3.8 Ways of improving productivity</p> <p>3.9 Adherence to work requirements</p>	<p>3.1 Applying mensuration</p> <p>3.2 Handling and use of materials, tools and equipment</p> <p>3.3 Applying productive methods and techniques</p> <p>3.4 Using PPE</p> <p>3.5 Communicating effectively</p> <p>3.6 Following company rules and regulations</p> <p>3.7 Following instructions</p> <p>3.8 Interpreting product manual</p> <p>3.9 Implementing 5S</p> <p>3.10 Reading and understanding drawings</p>

ELEMENT	PERFORMANCE CRITERIA <i>Italicized terms are elaborated in the Range of Variables</i>	REQUIRED KNOWLEDGE	REQUIRED SKILLS
4. Fasten eaves or soffits frames, panels and vents	<p>4.1 Personal Protective Equipment (PPE) is used in accordance with 1080 of Occupational Safety and Health Standards.</p> <p>4.2 Frames and hangers are installed based on specifications and manufacturer's recommendation</p> <p>4.3 Installed frames are checked for squareness, levelness, plumbness and alignment</p> <p>4.4 Panels are laid/ fastened to frames based on working drawings, specifications and manufacturer's recommendation</p> <p>4.5 Work area is cleaned according to safety and environmental regulations(e.g. PD 1152 Section 6, 8 & 42)</p> <p>4.6 Required output is completed as specified by the immediate supervisor based on based on work schedule.</p>	<p>4.1 DOLE Department Order No. 13 series 1998 Guidelines Governing Occupational Safety and Health in the Construction Industry</p> <p>4.2 Green Building Concept relative to Construction (3R, 5S)</p> <p>4.3 Safe handling and standard specification of materials, tools and equipment</p> <p>4.4 Markings and labels</p> <p>4.5 Company rules and regulations</p> <p>4.6 Mensuration</p> <p>4.7 Installation procedures</p>	<p>4.1 Using PPE</p> <p>4.2 Communicating effectively</p> <p>4.3 Following company rules and regulations</p> <p>4.4 Organizing materials to be used</p> <p>4.5 Handling and use of materials, tools and equipment</p> <p>4.6 Applying mensuration</p> <p>4.7 Interpreting product manual</p> <p>4.8 Implementing 3R and 5S</p> <p>4.9 Reading and understanding drawings</p>

ELEMENT	PERFORMANCE CRITERIA <i>Italicized terms are elaborated in the Range of Variables</i>	REQUIRED KNOWLEDGE	REQUIRED SKILLS
5. Perform housekeeping	5.1 Personal protective equipment (PPE) is used in accordance with Rule 1080 of Occupational Safety and Health Standards. 5.2 Excess/un-used materials are recovered and stockpiled according to company rules and procedures 5.3 Work area is cleaned according to safety and environmental regulations(e.g. PD 1152 Section 6, 8 & 42) 5.4 Tools and other materials are cleaned after use 5.5 .Required output is completed as specified by the immediate supervisor based on work schedule.	5.1 DOLE Department Order No. 13 series 1998 Guidelines Governing Occupational Safety and Health in the Construction Industry 5.2 Green Building Concept relative to Construction (3R, 5S) 5.3 Safe handling and standard specification of materials, tools and equipment 5.4 Safety signs and symbols 5.5 Adherence to work requirements	5.1 Working safely 5.2 Organizing materials to be stored 5.3 Handling and use of materials, tools and equipment 5.4 Communicating effectively 5.5 Using PPE 5.6 Implementing 3R and 5S

RANGE OF VARIABLES

VARIABLE	RANGE
1. Personal Protective Equipment (PPE)	May include: 1.1 Hard hat 1.2 Safety shoes 1.3 Gloves 1.4 Working clothes 1.5 Goggles 1.6 Vest 1.7 Full body harness (or alternative fall protection system such as railings/guard rails or combination of both)
2. Job requirements	May include: 2.1 Approved working drawings 2.2 Sketches/ Shop drawings
3. Materials and tools	May include: 3.1 Chalk line box 3.2 Pen Marker/ Pen Marker/ Pencil/Chalk stone 3.3 Claw hammer 3.4 Level hose/ level bar 3.5 Pull push rule/ steel tape/ laser meter 3.6 Nylon string 3.7 Plumb bob 3.8 Steel square/Carpenter's square 3.9 Electric drill (Variable speed) 3.10 Drill bit 3.11 Screw bit 3.12 Threaded rod 3.13 Metal furring and accessories 3.14 Fiber cement board 3.15 Snips metal cutter 3.16 Rivets 3.17 Riveter 3.18 Cutter 3.19 Scoring knife 3.20 Hack saw 3.21 PVC or Wooden or Fiber cement vent assembly 3.22 Vise grip 3.23 Adjustable wrench
4. Vents assembly	May include: 4.1 PVC 4.2 Wooden 4.3 Fiber cement 4.4 Metal

EVIDENCE GUIDE

<p>1. Critical aspect of Competency</p>	<p>Assessment requires evidence that the candidate:</p> <ul style="list-style-type: none"> 1.1 Prepared materials, tools and equipment consistent with job requirements 1.2 Erected scaffolds based on work requirements and safety standards 1.3 Laid-out eaves or soffits frames and panels and vents assembly elevation and position of framing system based on working drawing 1.4 Fasten eaves or soffits frames, panels and vents based on working drawings, specifications and manufacturer's recommendation 1.5 Performed housekeeping 1.6 Observed and complied with safety and environmental regulations 1.7 Communicated with others to ensure effective work operation 1.8 Observed and complied with the productivity requirements 1.9 Complied with attitudinal work requirements
<p>2. Resource implications</p>	<p>The following resources should be provided:</p> <ul style="list-style-type: none"> 2.1 Actual or simulated workplace 2.2 Tools, materials and equipment needed to perform the required tasks 2.3 References and manuals 2.4 PPE 2.5 First Aid Kit
<p>3. Method of assessment</p>	<p>Competency in this unit may be assessed through:</p> <ul style="list-style-type: none"> 3.1 Demonstration/Observation with Oral Questioning
<p>4. Context for assessment</p>	<ul style="list-style-type: none"> 4.1 Competency may be assessed in actual workplace or at the designated TESDA Accredited Assessment Center

UNIT OF COMPETENCY : INSTALL PARTITION WALL AND/OR CLADDING FRAMES AND BOARDS

UNIT CODE : CON711312

UNIT DESCRIPTOR : This unit covers the knowledge, skills, and attitudes in the installation of wall frames and boards.

ELEMENT	PERFORMANCE CRITERIA <i>Italicized terms are elaborated in the Range of Variables</i>	REQUIRED KNOWLEDGE	REQUIRED SKILLS
1. Prepare materials, tools and equipment	1.1 <i>Personal protective equipment (PPE)</i> is used in accordance with Rule 1080 of Occupational Safety and Health Standards 1.2 List of materials, tools and equipment are secured according to job requirements 1.3 Materials, tools and equipment are selected, inspected and prepared consistent with job requirements. 1.4 Fabrication and staging area are prepared based on job requirements 1.5 Work area is cleaned according to safety and environmental regulations (e.g. PD 1152 Section 6, 8 & 42) 1.6 Required output is completed as specified by the immediate supervisor based on work schedule.	1.1 DOLE Department Order No. 13 series 1998 Guidelines Governing Occupational Safety and Health in the Construction Industry 1.2 Green Building Concept relative to Construction (3R, 5S) 1.3 Safe handling and standard specification of materials, tools and equipment 1.4 Markings and labels 1.5 Company rules and regulations 1.6 Mensuration 1.7 Safe and effective use of hand tools 1.8 Factors affecting productivity 1.9 Productivity work measurements 1.10 Ways of improving productivity 1.12 Adherence to work requirements	1.1 Using PPE 1.2 Communicating effectively 1.3 Following company rules and regulations 1.4 Organizing materials to be used 1.5 Handling and use of materials, tools and equipment 1.6 Applying mensuration 1.7 Implementing 3R and 5S 1.8 Interpreting product manual 1.9 Reading and understanding drawings

ELEMENT	PERFORMANCE CRITERIA <i>Italicized terms are elaborated in the Range of Variables</i>	REQUIRED KNOWLEDGE	REQUIRED SKILLS
2. Erect movable scaffolds or working platforms	<p>2.1 Personal Protective Equipment (PPE) is used in accordance with 1080 of Occupational Safety and Health Standards.</p> <p>2.2 Scaffolds or platforms and components are erected and stability is ensured based on work requirements and safety standards</p> <p>2.3 Work area is cleaned according to safety and environmental regulations (e.g. PD 1152 Section 6, 8 & 42)</p> <p>2.4 Required output is completed as specified by the immediate supervisor based on work schedule.</p>	<p>2.1 DOLE Department Order No. 13 series 1998 Guidelines Governing Occupational Safety and Health in the Construction Industry</p> <p>2.2 Green Building Concept relative to Construction (3R, 5S)</p> <p>2.3 Working at heights procedures</p> <p>2.4 Safe handling and standard specification of materials, tools and equipment</p> <p>2.5 Company rules and regulations</p> <p>2.6 Mensuration</p> <p>2.7 Factors affecting productivity</p> <p>2.8 Productivity work measurements</p> <p>2.9 Ways of improving productivity</p>	<p>2.1 Using PPE</p> <p>2.2 Communicating effectively</p> <p>2.3 Following company rules and regulations</p> <p>2.4 Organizing materials to be used</p> <p>2.5 Handling and use of materials, tools and equipment</p> <p>2.6 Applying mensuration</p> <p>2.7 Implementing 3R and 5S</p> <p>2.8 Complying safety requirements on erection procedure</p> <p>2.9 Reading and understanding drawings</p>

ELEMENT	PERFORMANCE CRITERIA <i>Italicized terms are elaborated in the Range of Variables</i>	REQUIRED KNOWLEDGE	REQUIRED SKILLS
3. Layout position of frames and panels for partition walls and/or cladding	<p>3.1 Personal Protective Equipment (PPE) is used in accordance with 1080 of Occupational Safety and Health Standards.</p> <p>3.2 Exact location and height are marked for frames and panels based on working drawing</p> <p>3.3 Main framing layout is finalized based on job requirements</p> <p>3.4 Work area is cleaned according to safety and environmental regulations(e.g. PD 1152 Section 6, 8 & 42)</p> <p>3.5 Required output is completed as specified by the immediate supervisor based on work schedule.</p>	<p>3.1 DOLE Department Order No. 13 series 1998 Guidelines Governing Occupational Safety and Health in the Construction Industry</p> <p>3.2 Green Building Concept relative to Construction (5S)</p> <p>3.3 Company rules and regulations</p> <p>3.4 Methods and techniques in measurements</p> <p>3.5 Understanding instructions</p> <p>3.6 Factors affecting productivity</p> <p>3.7 Productivity work measurements</p> <p>3.8 Ways of improving productivity</p> <p>3.9 Adherence to work requirements</p>	<p>3.1 Applying mensuration</p> <p>3.2 Handling and use of materials, tools and equipment</p> <p>3.3 Applying productive methods and techniques</p> <p>3.4 Using PPE</p> <p>3.5 Communicating effectively</p> <p>3.6 Following company rules and regulations</p> <p>3.7 Following instructions</p> <p>3.8 Interpreting product manual</p> <p>3.9 Implementing 5S</p> <p>3.10 Reading and understanding drawings</p>

ELEMENT	PERFORMANCE CRITERIA <i>Italicized terms are elaborated in the Range of Variables</i>	REQUIRED KNOWLEDGE	REQUIRED SKILLS
4. Attach frames for partition walls or cladding and panels	<p>4.1 Personal Protective Equipment (PPE) is used in accordance with 1080 of Occupational Safety and Health Standards.</p> <p>4.2 Frames are installed based on specifications and manufacturer's recommendation</p> <p>4.3 Installed frames are checked for squareness, plumbness and alignment</p> <p>4.4 Panels are fastened to frames based on working drawings, specifications and manufacturer's recommendation</p> <p>4.5 Work area is cleaned according to safety and environmental regulations (e.g. PD 1152 Section 6, 8 & 42)</p> <p>4.6 Required output is completed as specified by the immediate supervisor based on work schedule.</p>	<p>4.1 DOLE Department Order No. 13 series 1998 Guidelines Governing Occupational Safety and Health in the Construction Industry</p> <p>4.2 Green Building Concept relative to Construction (3R, 5S)</p> <p>4.3 Safe handling and standard specification of materials, tools and equipment</p> <p>4.4 Markings and labels</p> <p>4.5 Company rules and regulations</p> <p>4.6 Mensuration</p> <p>4.7 Installation procedures</p>	<p>4.1 Using PPE</p> <p>4.2 Communicating effectively</p> <p>4.3 Following company rules and regulations</p> <p>4.4 Organizing materials to be used</p> <p>4.5 Handling and use of materials and tools</p> <p>4.6 Applying mensuration</p> <p>4.7 Interpreting product manual</p> <p>4.8 Implementing 3R and 5S</p> <p>4.9 Reading and understanding drawings</p>

ELEMENT	PERFORMANCE CRITERIA <i>Italicized terms are elaborated in the Range of Variables</i>	REQUIRED KNOWLEDGE	REQUIRED SKILLS
5. Perform housekeeping	5.1 Personal protective equipment (PPE) is used in accordance with Rule 1080 of Occupational Safety and Health Standards. 5.2 Excess/un-used materials are recovered and stockpiled according to company rules and procedures 5.3 Work area is cleaned according to safety and environmental regulations(e.g. PD 1152 Section 6, 8 & 42) 5.4 Tools and other materials are cleaned after use. 5.5 Required output is completed as specified by the immediate supervisor based on work schedule.	5.1 DOLE Department Order No. 13 series 1998 Guidelines Governing Occupational Safety and Health in the Construction Industry 5.2 Green Building Concept relative to Construction (3R, 5S) 5.3 Safe handling and standard specification of materials, tools and equipment 5.4 Safety signs and symbols 5.5 Adherence to work requirements	5.1 Working safely 5.2 Organizing materials to be stored 5.3 Handling and use of materials, tools and equipment 5.4 Communicating effectively 5.5 Using PPE 5.6 Implementing 3R and 5S

RANGE OF VARIABLES

VARIABLE	RANGE
1. Personal Protective Equipment (PPE)	May include: 1.1 Hard hat 1.2 Safety shoes 1.3 Gloves 1.4 Working clothes 1.5 Goggles 1.6 Vest 1.7 Full body harness (or alternative fall protection system such as railings/guard rails or combination of both)
2. Job requirements	May include: 2.1 Approved working drawings 2.2 Sketches/ Shop drawings
3. Materials and tools	May include: 3.1 Chalk line box 3.2 Pen Marker/ Pen Marker/ Pencil/Chalk stone 3.3 Claw hammer 3.4 Level hose/ level bar 3.5 Pull push rule/ steel tape/ laser meter 3.6 Nylon string 3.7 Plumb bob 3.8 Steel square/Carpenter's square 3.9 Electric drill (Variable speed) 3.10 Drill bit 3.11 Screw bit 3.12 Metal studs, tracks and accessories 3.13 Gypsum board 3.14 Fiber cement board 3.15 Snips metal cutter 3.16 Rivets 3.17 Riveter 3.18 Cutter 3.19 Plier 3.20 Vise grip 3.21 Adjustable wrench 3.22 Scoring knife 3.23 Grinder

EVIDENCE GUIDE

<p>1. Critical aspect of Competency</p>	<p>Assessment requires evidence that the candidate:</p> <ul style="list-style-type: none"> 1.1 Prepared materials and tools Prepared materials and tools consistent with job requirements 1.2 Erected movable scaffolds or working platforms based on work requirements and safety standards 1.3 Laid-out position of frames and panels for partition walls and/or cladding 1.4 Attached frames for partition walls or cladding and panels based on working drawings, specifications and manufacturer's recommendation 1.5 Performed housekeeping 1.6 Observed and complied with safety and environmental regulations 1.7 Communicated with others to ensure effective work operation 1.8 Observed and complied with the productivity requirements 1.9 Complied with attitudinal work requirements
<p>2. Resource implications</p>	<p>The following resources should be provided:</p> <ul style="list-style-type: none"> 2.1 Actual or simulated workplace 2.2 Tools, materials and equipment needed to perform the required tasks 2.3 References and manuals 2.4 PPE 2.5 First Aid Kit
<p>3. Method of assessment</p>	<p>Competency in this unit may be assessed through:</p> <ul style="list-style-type: none"> 3.1 Demonstration/Observation with Oral Questioning
<p>4. Context for assessment</p>	<p>4.1 Competency may be assessed in actual workplace or at the designated TESDA Accredited Assessment Center</p>

UNIT OF COMPETENCY : INSTALL LAMINATE FLOORS

UNIT CODE : CON711313

UNIT DESCRIPTOR : This unit covers the knowledge, skills, and attitudes in installation of laminate wooden floors.

ELEMENT	PERFORMANCE CRITERIA <i>Italicized terms are elaborated in the Range of Variables</i>	REQUIRED KNOWLEDGE	REQUIRED SKILLS
1. Prepare materials and tools	1.1 Personal protective equipment (PPE) is used in accordance with Rule 1080 of Occupational Safety and Health Standards 1.2 List of materials, tools and equipment are secured and followed according to job requirements 1.3 Material and tools are selected, inspected and prepared consistent with job requirements. 1.4 Work area is cleaned according to safety and environmental regulations (e.g. PD 1152 Section 6, 8 & 42) 1.5 Required output is completed as specified by the immediate supervisor based on work schedule.	1.1 DOLE Department Order No. 13 series 1998 Guidelines Governing Occupational Safety and Health in the Construction Industry 1.2 Green Building Concept relative to Construction (3R, 5S) 1.3 Safe handling and standard specification of materials and tools 1.4 Markings and labels 1.5 Company rules and regulations 1.6 Mensuration 1.7 Safe and effective use of hand tools 1.8 Factors affecting productivity 1.9 Productivity work measurements 1.10 Ways of improving productivity 1.11 Adherence to work requirements	1.1 Using PPE 1.2 Communicating effectively 1.3 Following company rules and regulations 1.4 Organizing materials to be used 1.5 Handling and use of materials and tools 1.6 Applying mensuration 1.7 Interpreting product manual 1.8 Implementing 3R and 5S 1.9 Reading and understanding drawings

ELEMENT	PERFORMANCE CRITERIA <i>Italicized terms are elaborated in the Range of Variables</i>	REQUIRED KNOWLEDGE	REQUIRED SKILLS
2. Prepare surface	<p>2.1 Personal Protective Equipment (PPE) is used in accordance with 1080 of Occupational Safety and Health Standards</p> <p>2.2 Surface is cleaned from residue and protrusions</p> <p>2.3 Leveling compound is applied to ensure evenness, if necessary</p> <p>2.4 Work area is cleaned according to safety and environmental regulations (e.g. PD 1152 Section 6, 8 & 42)</p> <p>2.5 Required output is completed as specified by the immediate supervisor based on work schedule.</p>	<p>2.1 DOLE Department Order No. 13 series 1998 Guidelines Governing Occupational Safety and Health in the Construction Industry</p> <p>2.2 Green Building Concept relative to Construction (3R, 5S)</p> <p>2.3 Safe handling and standard specification of materials and tools</p> <p>2.4 Company rules and regulations</p> <p>2.5 Safe and effective use of tools</p> <p>2.6 Factors affecting productivity</p> <p>2.7 Productivity work measurements</p> <p>2.8 Ways of improving productivity</p> <p>2.9 Adherence to work requirements</p>	<p>2.1 Using PPE</p> <p>2.2 Communicating effectively</p> <p>2.3 Following company rules and regulations</p> <p>2.4 Organizing materials and tools</p> <p>2.5 Handling and use of materials and tools</p> <p>2.6 Interpreting product manual</p> <p>2.7 Implementing 3R and 5S</p> <p>2.8 Reading and understanding drawings</p>

ELEMENT	PERFORMANCE CRITERIA <i>Italicized terms are elaborated in the Range of Variables</i>	REQUIRED KNOWLEDGE	REQUIRED SKILLS
3. Lay out laminate floor starter	<p>3.1 Personal Protective Equipment (PPE) is used in accordance with 1080 of Occupational Safety and Health Standards</p> <p>3.2 Laminate floor direction is laid-out based on job requirements</p> <p>3.3 Work area is cleaned according to safety and environmental regulations (e.g. PD 1152 Section 6, 8 & 42)</p> <p>3.4 Required output is completed as specified by the immediate supervisor based on work schedule.</p>	<p>3.1 DOLE Department Order No. 13 series 1998 Guidelines Governing Occupational Safety and Health in the Construction Industry</p> <p>3.2 Green Building Concept relative to Construction (5S)</p> <p>3.3 Signs and symbols</p> <p>3.4 Company rules and regulations</p> <p>3.5 Methods and techniques in laying out</p> <p>3.6 Understanding instructions</p> <p>3.7 Factors affecting Productivity</p> <p>3.8 Productivity work measurements</p> <p>3.9 Ways of improving productivity</p> <p>3.10 Adherence to work requirements</p>	<p>3.1 Handling and use of materials and tools</p> <p>3.2 Applying productive methods and techniques in laying out</p> <p>3.3 Using PPE</p> <p>3.4 Communicating effectively</p> <p>3.5 Following company rules and regulations</p> <p>3.6 Following instructions</p> <p>3.7 Interpreting product manual</p> <p>3.8 Implementing 5S</p> <p>3.9 Reading and understanding drawings</p>

ELEMENT	PERFORMANCE CRITERIA <i>Italicized terms are elaborated in the Range of Variables</i>	REQUIRED KNOWLEDGE	REQUIRED SKILLS
4. Place laminate floors	<p>4.1 Personal Protective Equipment (PPE) is used in accordance with 1080 of Occupational Safety and Health Standards</p> <p>4.2 Insulation is laid and adhered if needed, following manufacturer's recommendation</p> <p>4.3 Laminate floor and accessories are installed as per design pattern</p> <p>4.4 Work area is cleaned according to safety and environmental regulations (e.g. PD 1152 Section 6, 8 & 42)</p> <p>4.5 Required output is completed as specified by the immediate supervisor based on work schedule.</p>	<p>4.1 DOLE Department Order No. 13 series 1998 Guidelines Governing Occupational Safety and Health in the Construction Industry</p> <p>4.2 Green Building Concept relative to Construction (3R, 5S)</p> <p>4.3 Safe handling and standard specification of materials and tools</p> <p>4.4 Markings and labels</p> <p>4.5 Company rules and regulations</p> <p>4.6 Mensuration</p> <p>4.7 Installation procedures</p> <p>4.8 Factors affecting productivity</p> <p>4.9 Productivity work measurements</p> <p>4.10 Ways of improving productivity</p>	<p>4.1 Using PPE</p> <p>4.2 Communicating effectively</p> <p>4.3 Following company rules and regulations</p> <p>4.4 Organizing materials to be used</p> <p>4.5 Handling and use of materials and tools</p> <p>4.6 Applying mensuration</p> <p>4.7 Following installation procedures</p> <p>4.8 Interpreting product manual</p> <p>4.9 Implementing 3R and 5S</p> <p>4.10 Reading and understanding drawings</p>

ELEMENT	PERFORMANCE CRITERIA <i>Italicized terms are elaborated in the Range of Variables</i>	REQUIRED KNOWLEDGE	REQUIRED SKILLS
5. Perform housekeeping	5.1 Personal protective equipment (PPE) is used in accordance with Rule 1080 of Occupational Safety and Health Standards. 5.2 Excess/un-used materials are recovered and stockpiled according to company rules and procedures 5.3 Work area is cleaned according to safety and environmental regulations(e.g. PD 1152 Section 6, 8 & 42) 5.4 Tools and other materials are cleaned after use. 5.5 Required output is completed as specified by the immediate supervisor based on work schedule.	5.1 DOLE Department Order No. 13 series 1998 Guidelines Governing Occupational Safety and Health in the Construction Industry 5.6 Green Building Concept relative to Construction (3R, 5S) 5.7 Safe handling and standard specification of materials and tools 5.8 Safety signs and symbols 5.9 Adherence to work requirements	5.1 Working safely 5.2 Organizing materials to be stored 5.3 Handling and use of materials and tools 5.4 Communicating effectively 5.5 Using PPE 5.6 Implementing 3R and 5S

RANGE OF VARIABLES

VARIABLE	RANGE
1. Personal Protective Equipment (PPE)	May include: 1.2 Hard hat 1.3 Safety shoes 1.4 Gloves 1.5 Working clothes 1.6 Goggles 1.7 Vest 1.8 Dust mask
2. Job requirements	May include: 2.1 Approved working drawings 2.2 Sketches/ Shop drawings
3. Materials and tools	May include: 3.1 Laminate floors 3.2 Polyethylene foam insulation 3.3 Pen Marker/ Pencil/Chalk stone 3.4 Cutter 3.5 Glue/adhesive 3.6 Level bar 3.7 Pull push rule 3.8 Hack saw 3.9 Cross-cut saw 3.10 Rags
4. Accessories	May include: 4.1 Baseboards 4.2 Sealant 4.3 Rubber molding

EVIDENCE GUIDE

<p>1. Critical aspects of Competency</p>	<p>Assessment requires evidence that the candidate:</p> <ul style="list-style-type: none"> 1.1 Prepared materials and tools consistent with job requirements 1.2 Prepare surface 1.3 Laid-out laminated floor starter based on job requirements 1.4 Placed laminate floors as per design pattern 1.5 Performed housekeeping 1.6 Observed and complied with safety and environmental regulations 1.7 Communicated with others to ensure effective work operation 1.8 Observed and complied with the productivity requirements 1.9 Complied with attitudinal work requirements
<p>2. Resource implications</p>	<p>The following resources should be provided:</p> <ul style="list-style-type: none"> 2.1 Actual or simulated workplace 2.2 Tools, materials and equipment needed to perform the required tasks 2.3 References and manuals 2.4 PPE 2.5 First Aid Kit
<p>3. Method of assessment</p>	<p>Competency in this unit may be assessed through:</p> <ul style="list-style-type: none"> 3.1 Demonstration/Observation with Oral Questioning
<p>4. Context for assessment</p>	<ul style="list-style-type: none"> 4.1 Competency may be assessed in actual workplace or at the designated TESDA Accredited Assessment Center

UNIT OF COMPETENCY : **INSTALL PARQUET FLOORS**

UNIT CODE : **CON711314**

UNIT DESCRIPTOR : This unit covers the knowledge, skills, and attitudes in the installation of parquet floors.

ELEMENT	PERFORMANCE CRITERIA <i>Italicized terms are elaborated in the Range of Variables</i>	REQUIRED KNOWLEDGE	REQUIRED SKILLS
1. Prepare materials and tools	1.1 Personal protective equipment (PPE) is used in accordance with Rule 1080 of Occupational Safety and Health Standards 1.2 List of materials, tools and equipment are secured and followed according to job requirements 1.3 Material and tools are selected, inspected and prepared consistent with job requirements. 1.4 Work area is cleaned according to safety and environmental regulations (e.g. PD 1152 Section 6, 8 & 42) 1.5 Required output is completed as specified by the immediate supervisor based on work schedule.	1.1 DOLE Department Order No. 13 series 1998 Guidelines Governing Occupational Safety and Health in the Construction Industry 1.2 Green Building Concept relative to Construction (3R, 5S) 1.3 Safe handling and standard specification of materials and tools 1.4 Markings and labels 1.5 Company rules and regulations 1.6 Mensuration 1.7 Safe and effective use of hand tools 1.8 Factors affecting productivity 1.9 Productivity work measurements 1.10 Ways of improving productivity 1.11 Adherence to work requirements	1.1 Using PPE 1.2 Communicating effectively 1.3 Following company rules and regulations 1.4 Organizing materials to be used 1.5 Handling and use of materials and tools 1.6 Applying mensuration 1.7 Interpreting product manual 1.8 Implementing 3R and 5S 1.9 Reading and understanding drawings

ELEMENT	PERFORMANCE CRITERIA <i>Italicized terms are elaborated in the Range of Variables</i>	REQUIRED KNOWLEDGE	REQUIRED SKILLS
2. Prepare surface	2.1 Personal Protective Equipment (PPE) is used in accordance with 1080 of Occupational Safety and Health Standards 2.2 Surface is cleaned from residue and protrusions 2.3 Leveling compound is applied to ensure evenness, if necessary 2.4 Work area is cleaned according to safety and environmental regulations (e.g. PD 1152 Section 6, 8 & 42) 2.5 Required output is completed as specified by the immediate supervisor based on work schedule.	2.1 DOLE Department Order No. 13 series 1998 Guidelines Governing Occupational Safety and Health in the Construction Industry 2.2 Green Building Concept relative to Construction (3R, 5S) 2.3 Safe handling and standard specification of materials and tools 2.4 Company rules and regulations 2.5 Safe and effective use of tools 2.6 Factors affecting productivity 2.7 Productivity work measurements 2.8 Ways of improving productivity 2.9 Adherence to work requirements	2.1 Using PPE 2.2 Communicating effectively 2.3 Following company rules and regulations 2.4 Organizing materials and tools 2.5 Handling and use of materials and tools 2.6 Interpreting product manual 2.7 Implementing 3R and 5S 2.8 Reading and understanding drawings

ELEMENT	PERFORMANCE CRITERIA <i>Italicized terms are elaborated in the Range of Variables</i>	REQUIRED KNOWLEDGE	REQUIRED SKILLS
3. Lay out parquet pattern/ design	<p>3.1 Personal Protective Equipment (PPE) is used in accordance with 1080 of Occupational Safety and Health Standards</p> <p>3.2 Parquet pattern/ design is marked and stringed based on working drawings</p> <p>3.3 Work area is cleaned according to safety and environmental regulations (e.g. PD 1152 Section 6, 8 & 42)</p> <p>3.4 Required output is completed as specified by the immediate supervisor based on work schedule.</p>	<p>3.1 DOLE Department Order No. 13 series 1998 Guidelines Governing Occupational Safety and Health in the Construction Industry</p> <p>3.2 Green Building Concept relative to Construction (3R, 5S)</p> <p>3.3 Signs and symbols</p> <p>3.4 Company rules and regulations</p> <p>3.5 Methods and techniques in laying out</p> <p>3.6 Understanding instructions</p> <p>3.7 Factors affecting productivity</p> <p>3.8 Productivity work measurements</p> <p>3.9 Ways of improving productivity</p> <p>3.10 Adherence to work requirements</p>	<p>3.1 Handling and use of materials and tools</p> <p>3.2 Applying productive methods and techniques in laying out</p> <p>3.3 Using PPE</p> <p>3.4 Communicating effectively</p> <p>3.5 Following company rules and regulations</p> <p>3.6 Following instructions</p> <p>3.7 Interpreting product manual</p> <p>3.8 Implementing 3R and 5S</p> <p>3.9 Reading and understanding drawings</p>

ELEMENT	PERFORMANCE CRITERIA <i>Italicized terms are elaborated in the Range of Variables</i>	REQUIRED KNOWLEDGE	REQUIRED SKILLS
4. Place parquet	<p>4.1 Personal Protective Equipment (PPE) is used in accordance with 1080 of Occupational Safety and Health Standards</p> <p>4.2 Adhesive is applied as needed</p> <p>4.3 Parquet tiles are laid and fixed as per working drawings</p> <p>4.4 Parquet is ground to desired flatness</p> <p>4.5 Working area is vacuum-cleaned free of dust</p> <p>4.6 Work area is cleaned according to safety and environmental regulations (e.g. PD 1152 Section 6, 8 & 42)</p>	<p>4.1 DOLE Department Order No. 13 series 1998 Guidelines Governing Occupational Safety and Health in the Construction Industry</p> <p>4.2 Green Building Concept relative to Construction (3R, 5S)</p> <p>4.3 Safe handling and standard specification of materials and tools</p> <p>4.4 Markings and labels</p> <p>4.5 Company rules and regulations</p> <p>4.6 Mensuration</p> <p>4.7 5-S</p> <p>4.8 Economic use of material</p> <p>4.9 Installation procedures</p> <p>4.10 Factors affecting productivity</p> <p>4.11 Productivity work measurements</p> <p>4.12 Ways of improving productivity</p>	<p>4.1 Using PPE</p> <p>4.2 Communicating effectively</p> <p>4.3 Following company rules and regulations</p> <p>4.4 Organizing materials to be used</p> <p>4.5 Handling and use of materials and tools</p> <p>4.6 Applying mensuration</p> <p>4.7 Following installation procedures</p> <p>4.8 Interpreting product manual</p> <p>4.9 Implementing 3R and 5S</p> <p>4.10 Reading and understanding drawings</p>

ELEMENT	PERFORMANCE CRITERIA <i>Italicized terms are elaborated in the Range of Variables</i>	REQUIRED KNOWLEDGE	REQUIRED SKILLS
5.Perform housekeeping	5.1 Personal protective equipment (PPE) is used in accordance with Rule 1080 of Occupational Safety and Health Standards. 5.2 Excess/un-used materials are recovered and stockpiled according to company rules and procedures 5.3 Work area is cleaned according to safety and environmental regulations(e.g. PD 1152 Section 6, 8 & 42) 5.4 Tools and other materials are cleaned after use. 5.5 Required output is completed as specified by the immediate supervisor based on work schedule.	5.1 DOLE Department Order No. 13 series 1998 Guidelines Governing Occupational Safety and Health in the Construction Industry 5.2 Green Building Concept relative to Construction (3R, 5S) 5.3 Safe handling and standard specification of materials and tools 5.4 Safety signs and symbols 5.5 Adherence to work requirements	5.1 Working safely 5.2 Organizing materials to be stored 5.3 Handling and use of materials and tools 5.4 Communicating effectively 5.5 Using PPE 5.6 Implementing 3R and 5S

RANGE OF VARIABLES

VARIABLE	RANGE
1. Personal Protective Equipment (PPE)	May include: 1.1 Hard hat 1.2 Safety shoes 1.3 Rubber Gloves 1.4 Working clothes 1.5 Goggles 1.6 Vest
2. Job requirements	May include: 2.1 Approved working drawings 2.2 Sketches/ Shop drawings
3. Materials and tools	May include: 3.1 Parquet tiles 3.2 Chalk line box 3.3 Pen Marker/ Pencil/Chalk stone 3.4 Rubber mallet 3.5 Adhesive/wood glue 3.6 Level hose/ level bar 3.7 Pull push rule 3.8 Nylon string 3.9 Steel square/Carpenter's square 3.10 Sander with disc 3.11 Polisher disc 3.12 Notched trowel 3.13 Floor roller 3.14 Jigsaw 3.15 Grinder 3.16 Vacuum cleaner 3.17 Rags

EVIDENCE GUIDE

<p>1. Critical aspects of Competency</p>	<p>Assessment requires evidence that the candidate:</p> <ul style="list-style-type: none"> 1.1 Prepared materials, tools and equipment consistent with job requirements. 1.2 Prepare surface 1.3 Laid-out parquet pattern/design based on working drawings 1.4 Placed parquet as per working drawings 1.5 Performed housekeeping 1.6 Observed and complied with safety and environmental regulations 1.7 Communicated with others to ensure effective work operation 1.8 Observed and complied with the productivity requirements 1.9 Complied with attitudinal work requirements
<p>2. Resource implications</p>	<p>The following resources should be provided:</p> <ul style="list-style-type: none"> 2.1 Actual or simulated workplace 2.2 Tools, materials and equipment needed to perform the required tasks 2.3 References and manuals 2.4 PPE 2.5 First Aid Kit
<p>3. Method of assessment</p>	<p>Competency in this unit may be assessed through:</p> <ul style="list-style-type: none"> 3.1 Demonstration/Observation with Oral Questioning
<p>4. Context for assessment</p>	<p>4.1 Competency may be assessed in actual workplace or at the designated TESDA Accredited Assessment Center</p>

SECTION 3 TRAINING ARRANGEMENTS

These standards are set to provide technical and vocational education and training (TVET) providers with information and other important requirements to consider when designing training programs for **CARPENTRY NC III**.

They include information on curriculum design; training delivery; trainee entry requirements; tools and equipment; training facilities; and trainer's qualification.

3.1 CURRICULUM DESIGN

TESDA shall provide the training on the development of competency-based curricula to enable training providers develop their own curricula with the components mentioned below.

Delivery of knowledge requirements for the basic, common and core units of competency specifically in the areas of mathematics, science/technology, communication/language and other academic subjects shall be contextualized. To this end, TVET providers shall develop a Contextual Learning Matrix (CLM) to accompany their curricula.

Course Title: CARPENTRY NC III

Nominal Training Duration:	40 Hours	Basic Competencies
	24 Hours	Common Competencies
	<u>160</u> Hours	Core Competencies
	Total 224 Hours	

Course Description:

This course is designed to enhance the knowledge, skill and attitudes of CARPENTRY NC III in accordance with construction industry standards. This covers competencies that a person must achieve in performing tasks such as installing decorative moldings, ceiling frames and panels or acoustical ceiling, eaves or soffits frames and panels and vents assembly, partition wall and/or cladding frames and boards, laminate floors and parquet floors.

To complete the course, all units prescribed for this qualification must be achieved:

**BASIC COMPETENCIES
(40 HOURS)**

Unit of Competency	Learning Outcomes	Learning Activities	Methodology	Assessment Approach	Nominal Duration
1. Lead workplace communication	1.1 Communicate information about workplace processes	<ul style="list-style-type: none"> • Read <ul style="list-style-type: none"> ○ Effective verbal communication methods ○ Sources of information • Practice organizing information • Identify organization requirements for written and electronic communication methods • Follow organization requirements for the use of written and electronic communication methods • Perform exercises on understanding and conveying intended meaning scenario 	<ul style="list-style-type: none"> • Lecture • Demonstration • Practical exercises • Role Play 	<ul style="list-style-type: none"> • Written Test • Observation 	2 Hours
	1.2 Lead workplace discussions	<ul style="list-style-type: none"> • Describe: <ul style="list-style-type: none"> ○ Organizational policy on production, quality and safety ○ Goals/ objectives and action plan setting • Read <ul style="list-style-type: none"> ○ Effective verbal communication methods • Prepare/set action plans based on organizational goals and objectives 	<ul style="list-style-type: none"> • Group discussion • Lecture • Demonstration 	<ul style="list-style-type: none"> • Oral evaluation • Written Test • Observation 	2 Hours
	1.3 Identify and communicate issues arising	<ul style="list-style-type: none"> • Describe: <ul style="list-style-type: none"> ○ Organizational policy in dealing with issues and problems 	<ul style="list-style-type: none"> • Group discussion 	<ul style="list-style-type: none"> • Oral evaluation • Written Test 	2 Hours

Unit of Competency	Learning Outcomes	Learning Activities	Methodology	Assessment Approach	Nominal Duration
2. Lead small teams	in the workplace	<ul style="list-style-type: none"> • Read • Effective verbal communication methods 	<ul style="list-style-type: none"> • Lecture 		
	2.1 Provide team leadership	<ul style="list-style-type: none"> • Discussion of Company policies and procedures • Read web pages on situational leadership • Role play on situational leadership 	<ul style="list-style-type: none"> • Group work • Role Play • Lecture/ Discussion • Individual Work 	<ul style="list-style-type: none"> • Role Play • Written Test 	1 Hour
	2.2 Assign responsibilities	<ul style="list-style-type: none"> • Read web pages on performance management • Case study on allocating roles and responsibilities based on competencies of current staff 	<ul style="list-style-type: none"> • Individual Work • Case Study 	<ul style="list-style-type: none"> • Role Play • Written Test 	1 Hour
	2.3 Set performance expectations for team members	<ul style="list-style-type: none"> • Role play to communicate performance expectations with staff • Discussion on performance issues 	<ul style="list-style-type: none"> • Lecture/ Discussion • Role Play 	<ul style="list-style-type: none"> • Role Play • Written Test 	1 Hour
	2.4 Supervise team performance	<ul style="list-style-type: none"> • Discussion on performance monitoring • Role play on providing feedback on performance • Role play on performance coaching • Discussion on keeping the team informed of team performance • Case study on Team performance monitoring and feedback 	<ul style="list-style-type: none"> • Lecture/ Discussion • Role Play • Case Study 	<ul style="list-style-type: none"> • Role Play • Written Test 	1 Hour

Unit of Competency	Learning Outcomes	Learning Activities	Methodology	Assessment Approach	Nominal Duration
3. Apply critical thinking and problem-solving techniques in the workplace	3.1 Examine specific workplace strategies	<ul style="list-style-type: none"> • Show thorough knowledge and understanding of the process, normal operating parameters, and product quality to recognize non-standard situations • Show mastery of the current industry hardware and software products and services • Discuss process of identification of fundamental causes of specific workplace challenges • Show mastery of knowledge and understanding of the process, normal operating parameters, and product quality to recognize non-standard situations <ul style="list-style-type: none"> - Relevant equipment and operational processes - Enterprise goals, targets and measures - Enterprise quality OHS and environmental requirement - Enterprise information systems and data collation - Industry codes and standards 	<ul style="list-style-type: none"> • Group discussion • Lecture • Demonstration • Role playing 	<ul style="list-style-type: none"> • Case Formulation • Life Narrative Inquiry (Interview) • Standardized test 	1 Hour
	3.2 Analyze the causes of specific workplace challenges	<ul style="list-style-type: none"> • Show thorough knowledge and understanding of the process, normal operating parameters, and product quality to recognize non-standard situations 	<ul style="list-style-type: none"> • Group discussion • Lecture • Demonstration • Role playing 	<ul style="list-style-type: none"> • Case Formulation • Life Narrative Inquiry (Interview) • Standardized test 	1 Hour

Unit of Competency	Learning Outcomes	Learning Activities	Methodology	Assessment Approach	Nominal Duration
		<ul style="list-style-type: none"> • Show mastery of the current industry hardware and software products and services • Discuss process of identification of fundamental causes of specific workplace challenges • Show mastery of knowledge and understanding of the process, normal operating parameters, and product quality to recognize non-standard situations <ul style="list-style-type: none"> - Relevant equipment and operational processes - Enterprise goals, targets and measures - Enterprise quality OHS and environmental requirement - Enterprise information systems and data collation - Industry codes and standards • Identify extent and causes of specific challenges in the workplace • Use of range of analytical problem-solving techniques • Formulate clear-cut findings on the nature of each identified workplace challenges 			
	3.3 Formulate resolutions to specific	<ul style="list-style-type: none"> • Show thorough knowledge and understanding of the process, normal operating parameters, and product 	<ul style="list-style-type: none"> • Group discussion • Lecture 	<ul style="list-style-type: none"> • Case Formulation • Life Narrative Inquiry (Interview) 	

Unit of Competency	Learning Outcomes	Learning Activities	Methodology	Assessment Approach	Nominal Duration
	workplace challenges	<p>quality to recognize non-standard situations</p> <ul style="list-style-type: none"> • Show mastery of the current industry hardware and software products and services • Discuss process of identification of fundamental causes of specific workplace challenges • Show mastery of knowledge and understanding of the process, normal operating parameters, and product quality to recognize non-standard situations <ul style="list-style-type: none"> - Relevant equipment and operational processes - Enterprise goals, targets and measures - Enterprise quality OHS and environmental requirement - Enterprise information systems and data collation - Industry codes and standards • Identify extent and causes of specific challenges in the workplace • Use of range of analytical problem-solving techniques • Formulate clear-cut findings on the nature of each identified workplace challenges • Discus strategies on devising, 	<ul style="list-style-type: none"> • Demonstration • Role playing 	<ul style="list-style-type: none"> • Standardized test 	1 Hour

Unit of Competency	Learning Outcomes	Learning Activities	Methodology	Assessment Approach	Nominal Duration
		communicating, implementing and evaluating strategies and techniques in addressing specific workplace challenges			
	3.4 Implement action plans and communicate results	<ul style="list-style-type: none"> • Identify extent and causes of specific challenges in the workplace • Use of range of analytical problem-solving techniques • Formulate clear-cut findings on the nature of each identified workplace challenges • Discuss strategies on devising, communicating, implementing and evaluating strategies and techniques in addressing specific workplace challenges 	<ul style="list-style-type: none"> • Group discussion • Lecture • Demonstration • Role playing 	<ul style="list-style-type: none"> • Case Formulation • Life Narrative Inquiry (Interview) • Standardized test 	1 Hour
4. Work in a diverse environment	4.1 Develop an individual's cultural awareness and sensitivity	<ul style="list-style-type: none"> • Show understanding of cultural diversity in the workplace • Recognize norms of behavior for interacting and dialogue with specific groups (e. g., Muslims and other non-Christians, non-Catholics, tribes/ethnic groups, foreigners) • Demonstrate different methods of verbal and non-verbal communication in a multicultural setting • Apply cross-cultural communication skills (i.e. different business customs, beliefs, communication strategies) 	<ul style="list-style-type: none"> • Small Group Discussion • Interactive Lecture • Brainstorming • Demonstration • Role-playing 	<ul style="list-style-type: none"> • Demonstration or simulation with oral questioning • Group discussions and interactive activities • Case studies/problems involving workplace diversity issues • Written examination • Role Playing 	1 Hour

Unit of Competency	Learning Outcomes	Learning Activities	Methodology	Assessment Approach	Nominal Duration
		<ul style="list-style-type: none"> • Show affective skills – establishing rapport and empathy, understanding, etc. • Demonstrate openness and flexibility in communication • Recognize diverse groups in the workplace and community as defined by divergent culture, religion, traditions and practices 			
	<p>4.2 Work effectively in an environment that acknowledges and values cultural diversity</p>	<ul style="list-style-type: none"> • Explain the value of diversity in the economy and society in terms of Workforce development • Discuss the importance of inclusiveness in a diverse environment • Discuss the importance of shared vision and understanding of and commitment to team, departmental, and organizational goals and objectives • Identify and exhibit strategies for customer service excellence • Demonstrate cross-cultural communication skills and active listening • Recognize diverse groups in the workplace and community as defined by divergent culture, religion, traditions and practices • Demonstrate collaboration skills 	<ul style="list-style-type: none"> • Small Group Discussion • Interactive Lecture • Brainstorming • Demonstration • Role-playing 	<ul style="list-style-type: none"> • Demonstration or simulation with oral questioning • Group discussions and interactive activities • Case studies/problems involving workplace diversity issues • Written examination • Role Playing 	<p>1 Hour</p>

Unit of Competency	Learning Outcomes	Learning Activities	Methodology	Assessment Approach	Nominal Duration
	4.3 Identify common issues in a multicultural and diverse environment	<ul style="list-style-type: none"> • Explain the value, and leverage of cultural diversity • Discuss the inclusivity and conflict resolution • Describe the workplace harassment • Explain the change management and cite ways to overcome resistance to change • Demonstrate advanced strategies for customer service excellence • Address diversity-related conflicts in the workplace • Eliminate discriminatory behavior towards customers and co-workers • Utilize change management policies in the workplace 	<ul style="list-style-type: none"> • Small Group Discussion • Interactive Lecture • Brainstorming • Demonstration • Role-playing 	<ul style="list-style-type: none"> • Demonstration or simulation with oral questioning • Group discussions and interactive activities • Case studies/problems involving workplace diversity issues • Written examination • Role Playing 	1 Hour
5. Propose methods of applying learning and innovation in the organization	5.1 Assess work procedures, processes and systems in terms of innovative practices	<ul style="list-style-type: none"> • Show mastery of the following practical concepts (e.g., 7 habits of highly effective people, character strengths that foster learning and innovation, five minds of the future, adaptation concepts and transtheoretical model of behavior change) • Demonstrate collaboration and networking skills • Show basic skills in research • Generate practical insights on how to improve organizational procedures, processes and systems 	<ul style="list-style-type: none"> • Interactive Lecture • Appreciative Inquiry • Demonstration • Group work 	<ul style="list-style-type: none"> • Psychological and behavioral Interviews • Performance Evaluation • Life Narrative Inquiry • Review of portfolios of evidence and third-party workplace reports of on-the-job performance. 	1 Hour

Unit of Competency	Learning Outcomes	Learning Activities	Methodology	Assessment Approach	Nominal Duration
				<ul style="list-style-type: none"> • Standardized assessment of character strengths and virtues applied 	
	5.2 Generate practical action plans for improving work procedures, processes	<ul style="list-style-type: none"> • Show mastery of the following practical concepts (e.g., 7 habits of highly effective people, character strengths that foster learning and innovation, five minds of the future, adaptation concepts and transtheoretical model of behavior change) • Demonstrate collaboration and networking skills • Show basic skills in research • Generate practical insights on how to improve organizational procedures, processes and systems • Set up action plans on how to apply innovative procedures in the organization • Set up action plans on how to apply innovative procedures in the organization • Generate practical insights on how to improve organizational procedures, processes and systems 	<ul style="list-style-type: none"> • Interactive Lecture • Appreciative Inquiry • Demonstration • Group work 	<ul style="list-style-type: none"> • Psychological and behavioral Interviews • Performance Evaluation • Life Narrative Inquiry • Review of portfolios of evidence and third-party workplace reports of on-the-job performance. • Standardized assessment of character strengths and virtues applied 	1 Hour
	5.3 Evaluate the effectiveness of the	<ul style="list-style-type: none"> • Show mastery of the following practical concepts (e.g., 7 habits of highly effective people, character strengths 	<ul style="list-style-type: none"> • Interactive Lecture • Appreciative 	<ul style="list-style-type: none"> • Psychological and behavioral Interviews 	1 Hour

Unit of Competency	Learning Outcomes	Learning Activities	Methodology	Assessment Approach	Nominal Duration
	proposed action plans	that foster learning and innovation, five minds of the future, adaptation concepts and transtheoretical model of behavior change) <ul style="list-style-type: none"> • Demonstrate collaboration and networking skills • Show basic skills in research • Generate practical insights on continuous improvement 	Inquiry <ul style="list-style-type: none"> • Demonstration • Group work 	<ul style="list-style-type: none"> • Performance Evaluation • Life Narrative Inquiry • Review of portfolios of evidence and third-party workplace reports of on-the-job performance. • Standardized assessment of character strengths and virtues applied 	
6. Use information systematically	6.1 Use technical information	<ul style="list-style-type: none"> • Lecture and discussion on: <ul style="list-style-type: none"> - Application in collating information - Procedures for inputting, maintaining and archiving information - Guidance to people who need to find and use information • Organizing information into a suitable form for reference and use • Classify stored information for identification and retrieval • Operate the technical information system by using agreed procedures 	<ul style="list-style-type: none"> • Lecture • Group Discussion • Hands on • Demonstration 	<ul style="list-style-type: none"> • Oral evaluation • Written Test • Observation • Presentation 	4 Hours

Unit of Competency	Learning Outcomes	Learning Activities	Methodology	Assessment Approach	Nominal Duration
	6.2 Apply information technology (IT)	<ul style="list-style-type: none"> • Lecture and discussion on: <ul style="list-style-type: none"> - Attributes and limitations of available software tool - Procedures and work instructions for the use of IT - Operational requirements for IT systems - Sources and flow paths of data - Security systems and measures that can be used - Methods of entering and processing information • Use procedures and work instructions for the use of IT • Extract data and format reports • Use WWW applications 	<ul style="list-style-type: none"> • Lecture • Group Discussion • Self-paced handout/ module • Hands on • Demonstration 	<ul style="list-style-type: none"> • Oral evaluation • Written Test • Observation • Presentation 	2 Hours
	6.3 Edit, format and check information	<ul style="list-style-type: none"> • Lecture and discussion on: <ul style="list-style-type: none"> - Basic file-handling techniques - Techniques in checking documents - Techniques in editing and formatting - Proof reading techniques • Use different techniques in checking documents • Edit and format information applying different techniques • Proof read information applying different techniques 	<ul style="list-style-type: none"> • Lecture • Group Discussion • Self-paced handout/ module • Hands on • Demonstration 	<ul style="list-style-type: none"> • Oral evaluation • Written Test • Observation • Presentation 	2 Hours
7. Evaluate Occupational Safety And	7.1 Interpret Occupational Safety and	<ul style="list-style-type: none"> • Discuss the OSH standards, principles and legislations • Identify OSH work practices issues 	<ul style="list-style-type: none"> • Lecture • Group Discussion 	<ul style="list-style-type: none"> • Written Exam • Demonstration • Observation 	2.5 Hours

Unit of Competency	Learning Outcomes	Learning Activities	Methodology	Assessment Approach	Nominal Duration
Health Work Practices	Health practices	<ul style="list-style-type: none"> • Discuss standard safety requirements 		<ul style="list-style-type: none"> • Interviews / Questioning 	
	7.2 Set OSH work targets	<ul style="list-style-type: none"> • Discussion in actions plans that are necessary in achieving the OSH target 	<ul style="list-style-type: none"> • Lecture • Group Discussion 	<ul style="list-style-type: none"> • Written Exam • Demonstration • Observation • Interviews / Questioning 	1 Hour
	7.3 Evaluate effectiveness of Occupational Safety and Health work instructions	<ul style="list-style-type: none"> • Practice evaluating safety data (Historical or Simulated) 	<ul style="list-style-type: none"> • Lecture • Group Discussion 	<ul style="list-style-type: none"> • Written Exam • Demonstration • Observation • Interviews / Questioning 	1.1 Hours
8. Evaluate Environmental Work Practices	8.1 Interpret environmental practices, policies and procedures	<ul style="list-style-type: none"> • Discussion Environmental Issues regarding <ul style="list-style-type: none"> - Water Quality - National and Local Government Issues - Safety - Endangered Species - Noise - Air Quality - Historic - Waste - Cultural • Updating of existing occupation practices 	<ul style="list-style-type: none"> • Lecture • Group Discussion • Demonstration 	<ul style="list-style-type: none"> • Written Exam • Demonstration • Observation • Interviews / Questioning 	1 Hour
	8.2 Establish	<ul style="list-style-type: none"> • Discussion on 	<ul style="list-style-type: none"> • Lecture 	<ul style="list-style-type: none"> • Written Exam 	1 Hour

Unit of Competency	Learning Outcomes	Learning Activities	Methodology	Assessment Approach	Nominal Duration
	targets to evaluate environmental practices	<ul style="list-style-type: none"> - lower production costs and energy consumption - Environmentally Sound Processes - Resource Efficient - Recycling and Waste Management • Simple case study regarding energy efficiency 	<ul style="list-style-type: none"> • Group Discussion • Demonstration 	<ul style="list-style-type: none"> • Demonstration • Observation • Interviews / Questioning 	
	8.3 Evaluate effectiveness of environmental practices	<ul style="list-style-type: none"> • Identifying effective environmental practices relevant to the industry/occupation <ul style="list-style-type: none"> - Implementation of energy efficiency 	<ul style="list-style-type: none"> • Lecture • Group Discussion • Demonstration • Case Study 	<ul style="list-style-type: none"> • Written Exam • Demonstration • Observation • Interviews / Questioning • Third Party Reports 	
9. Facilitate Entrepreneurial Skills For Micro-Small-Medium Enterprises (MSMEs)	9.1 Develop and maintain micro-small-medium enterprise (MSMEs) skills in the organization	<ul style="list-style-type: none"> • Discussions on business models and strategies • Discussion on Types and categories of businesses and business internal control • Discussion on Relevant National and local legislations affecting businesses • Prepare promotional materials • Practice basic bookkeeping 	<ul style="list-style-type: none"> • Lecture/ Discussion • Case Study • Demonstration 	<ul style="list-style-type: none"> • Written Test • Portfolio • Work Related Project 	2 Hours
	9.2 Establish and maintain client-base/market	<ul style="list-style-type: none"> • Role play on customer and employee relations • Discussion on Basic product 	<ul style="list-style-type: none"> • Role Play • Lecture Discussion 	<ul style="list-style-type: none"> • Case problem • Written Test 	2 Hours

Unit of Competency	Learning Outcomes	Learning Activities	Methodology	Assessment Approach	Nominal Duration
		promotion strategies <ul style="list-style-type: none"> • Preparation of Basic Feasibility study • Case studies on Basic Business ethics • Prepare basic advertising materials 	<ul style="list-style-type: none"> • Case study 		
	9.3 Apply budgeting and financial management skills	<ul style="list-style-type: none"> • Discussion on: <ul style="list-style-type: none"> - Basic cost-benefit analysis - Basic financial management - Basic financial accounting - Business internal controls 	<ul style="list-style-type: none"> • Role Play • Lecture Discussion • Group work 	<ul style="list-style-type: none"> • Written Test • Case problem 	1 Hour

**COMMON COMPETENCIES
(24 HOURS)**

Unit of Competency	Learning Outcomes	Learning Activities	Methodologies	Assessment Methods	Nominal Duration
1. Prepare construction materials and tools	1.1 Identify materials	<ul style="list-style-type: none"> Identifying tools according to the job requirements Identifying materials and accessories according to the job requirements 	<ul style="list-style-type: none"> Lecture-demonstration Group discussion PowerPoint presentation 	<ul style="list-style-type: none"> Demonstration with oral questioning Written examination Portfolio (credentials) 	1 Hour
	1.2 Requisition materials	<ul style="list-style-type: none"> Preparing material take-off Requesting materials and tools 	<ul style="list-style-type: none"> Simulation Discussion 	<ul style="list-style-type: none"> Demonstration with oral questioning 	1 Hour
	1.3 Receive and inspect materials	<ul style="list-style-type: none"> Checking and inspecting materials and tools Storing/ stacking of tool and materials 	<ul style="list-style-type: none"> Practical Exercise Demonstration 	<ul style="list-style-type: none"> Written / Oral Test Demonstration with oral questioning 	2 Hours
2. Observe procedures, specifications and manuals of instructions	2.1 Identify and access specification/ manuals	<ul style="list-style-type: none"> Identifying manuals and specifications Accessing information and data 	<ul style="list-style-type: none"> Lecture-demonstration 	<ul style="list-style-type: none"> Demonstration with oral questioning Written examination 	2 Hours
	2.2 Interpret manuals	<ul style="list-style-type: none"> Interpreting symbols and specifications Accessing information and data Applying conversion of units of measurements 	<ul style="list-style-type: none"> Actual demonstration Group discussion 	<ul style="list-style-type: none"> Demonstration with oral questioning Written examination 	2 Hours

Unit of Competency	Learning Outcomes	Learning Activities	Methodologies	Assessment Methods	Nominal Duration
	2.3 Apply information in manual	<ul style="list-style-type: none"> Applying information from manuals 	<ul style="list-style-type: none"> Demonstration Group discussion 	<ul style="list-style-type: none"> Demonstration with oral questioning 	2 Hours
	2.4 Store Manual	<ul style="list-style-type: none"> Storing and maintaining manuals 	<ul style="list-style-type: none"> Demonstration Group discussion 	<ul style="list-style-type: none"> Demonstration with oral questioning Practical and oral exam 	2 Hours
3. Interpret technical drawings and plans	3.1 Analyze signs, symbols and data	<ul style="list-style-type: none"> Identifying signs, symbols and data Classifying signs, symbols and data 	<ul style="list-style-type: none"> Discussion Demonstration 	<ul style="list-style-type: none"> Demonstration with oral questioning Written examination 	2 Hours
	3.2 Interpret drawings and plans	<ul style="list-style-type: none"> Identifying tools, supplies, materials and equipment Recognizing components, assemblies or objects Identifying dimensions 	<ul style="list-style-type: none"> Discussion Demonstration 	<ul style="list-style-type: none"> Demonstration with oral questioning Written examination 	2 Hours
4. Perform mensurations and calculations	4.1 Select measuring instruments	<ul style="list-style-type: none"> Selecting measuring instruments 	<ul style="list-style-type: none"> Lecture-demonstration Group discussion 	<ul style="list-style-type: none"> Demonstration with oral questioning 	2 Hours
	4.2 Carry out measurements and calculations	<ul style="list-style-type: none"> Interpreting formulas for volume, areas, perimeters of plane and geometric figures Handling of measuring instruments 	<ul style="list-style-type: none"> Group discussion Practical Lab Demonstration 	<ul style="list-style-type: none"> Written examination Third party report Demonstration with oral questioning 	2 Hours

Unit of Competency	Learning Outcomes	Learning Activities	Methodologies	Assessment Methods	Nominal Duration
5. Maintain tools and equipment	5.1 Check condition of tools and equipment	<ul style="list-style-type: none"> • Maintaining tools and equipment • Handling of tools and equipment • Identifying tools and equipment defects 	<ul style="list-style-type: none"> • Lecture-demonstration • Group discussion 	<ul style="list-style-type: none"> • Demonstration with oral questioning 	1 Hour
	5.2 Perform basic preventive maintenance	<ul style="list-style-type: none"> • Handling of tools and equipment • Performing preventive maintenance 	<ul style="list-style-type: none"> • Simulation • Group discussion • Practical Lab • Demonstration 	<ul style="list-style-type: none"> • Written examination • Third party report • Demonstration with oral questioning 	2 Hours
	5.3 Store tools and equipment	<ul style="list-style-type: none"> • Storing tools and equipment • Handling of tools and equipment 	<ul style="list-style-type: none"> • Demonstration • Group discussion • Practical Lab 	<ul style="list-style-type: none"> • Practical exam • Written examination • Demonstration with oral questioning 	1 Hour

**CORE COMPETENCIES
(160 HOURS)**

Unit of Competency	Learning Outcomes	Learning Activities	Methodologies	Assessment Methods	Nominal Duration
1. Install decorative moldings	1.1 Prepare materials, tools and equipment	<ul style="list-style-type: none"> • Receiving and handling materials, tools and equipment at workplace • Identifying, checking and inspecting materials, tools and equipment • Practicing 3R and 5S 	<ul style="list-style-type: none"> • Lecture • Demonstration 	<ul style="list-style-type: none"> • Written examination • Demonstration with oral questioning 	1 hour
	1.2 Layout location	<ul style="list-style-type: none"> • Reading and understanding sketches and working drawings • Locating and verifying offset line • Practicing 5S 	<ul style="list-style-type: none"> • Lecture • Practical / Demonstration 	<ul style="list-style-type: none"> • Written examination • Demonstration with oral questioning 	8 hours
	1.3 Cut and fix moldings	<ul style="list-style-type: none"> • Measuring and cutting of desired cut length of moldings • Installing moldings following standard procedures • Practicing 3R and 5S 	<ul style="list-style-type: none"> • Lecture • Practical / Demonstration 	<ul style="list-style-type: none"> • Written examination • Demonstration with oral questioning 	6 hours
	1.4 Perform housekeeping	<ul style="list-style-type: none"> • Implementing 3R and 5S 	<ul style="list-style-type: none"> • Lecture • Practical / Demonstration 	<ul style="list-style-type: none"> • Written examination • Demonstration with oral questioning 	1 hour

Unit of Competency	Learning Outcomes	Learning Activities	Methodologies	Assessment Methods	Nominal Duration
2. Install ceiling frames and panels or acoustical ceiling	2.1 Prepare materials, tools and equipment	<ul style="list-style-type: none"> • Receiving and handling materials, tools and equipment at workplace • Identifying, checking and inspecting materials, tools and equipment • Practicing 3R and 5S 	<ul style="list-style-type: none"> • Lecture • Practical / Demonstration 	<ul style="list-style-type: none"> • Written examination • Demonstration with oral questioning 	2 hours
	2.2 Erect scaffolds	<ul style="list-style-type: none"> • Identifying types of floor condition and preparation • Selecting of baseplates and or mudsill/soleplate • Erecting scaffolds • Practicing 3R and 5S 	<ul style="list-style-type: none"> • Lecture • Practical / Demonstration 	<ul style="list-style-type: none"> • Written examination • Demonstration with oral questioning 	4 hours
	2.3 Layout ceiling elevation, and position of framing system	<ul style="list-style-type: none"> • Defining and initial marking of ceiling and framing system elevation • Final marking of ceiling elevation • Practicing 5S 	<ul style="list-style-type: none"> • Lecture • Practical / Demonstration 	<ul style="list-style-type: none"> • Written examination • Demonstration with oral questioning 	8 hours
	2.4 Fasten frames and ceiling panels	<ul style="list-style-type: none"> • Installing and fixing frames and ceiling panels following standard installation procedures • Checking squareness, levelness and alignment • Practicing 3R and 5S 	<ul style="list-style-type: none"> • Lecture • Practical / Demonstration 	<ul style="list-style-type: none"> • Written examination • Demonstration with oral questioning 	24 hours

Unit of Competency	Learning Outcomes	Learning Activities	Methodologies	Assessment Methods	Nominal Duration
	2.5 Perform housekeeping	<ul style="list-style-type: none"> Implementing 3R and 5S 	<ul style="list-style-type: none"> Lecture Practical / Demonstration 	<ul style="list-style-type: none"> Written examination Demonstration with oral questioning 	1 hour
3. Install eaves or soffits frames and panels and vents assembly	3.1 Prepare materials, tools and equipment	<ul style="list-style-type: none"> Receiving and handling materials, tools and equipment at workplace Identifying, checking and inspecting materials, tools and equipment Practicing 3R and 5S 	<ul style="list-style-type: none"> Lecture Practical / Demonstration 	<ul style="list-style-type: none"> Written examination Demonstration with oral questioning 	1 hour
	3.2 Erect scaffolds	<ul style="list-style-type: none"> Identifying types of ground condition and preparation Selecting of baseplates and or mudsill/soleplate Erecting scaffolds Practicing 3R and 5S 	<ul style="list-style-type: none"> Lecture Practical / Demonstration 	<ul style="list-style-type: none"> Written examination Demonstration with oral questioning 	5 hours
	3.3 Layout eaves or soffits frames and panels and vents assembly elevation, and position of framing system	<ul style="list-style-type: none"> Measuring and marking elevations of framing systems, dimensions and location of vents Checking accuracy of measurements and markings Practicing 3R and 5S 	<ul style="list-style-type: none"> Lecture Practical / Demonstration 	<ul style="list-style-type: none"> Written examination Demonstration with oral questioning 	8 hours

Unit of Competency	Learning Outcomes	Learning Activities	Methodologies	Assessment Methods	Nominal Duration
	3.4 Fasten eaves or soffits frames, panels and vents	<ul style="list-style-type: none"> • Installing and fixing eaves or soffits frames, panels and vents following standard installation procedures • Checking squareness, levelness and alignment • Practicing 3R and 5S 	<ul style="list-style-type: none"> • Lecture • Practical / Demonstration 	<ul style="list-style-type: none"> • Written examination • Demonstration with oral questioning 	16 hours
	3.5 Perform housekeeping	<ul style="list-style-type: none"> • Implementing 3R and 5S 	<ul style="list-style-type: none"> • Lecture • Practical / Demonstration 	<ul style="list-style-type: none"> • Written examination • Demonstration with oral questioning 	1 hour
4. Install partition wall and/or cladding frames and boards	4.1 Prepare materials, tools and equipment	<ul style="list-style-type: none"> • Receiving and handling materials, tools and equipment at workplace • Identifying, checking and inspecting materials and tools • Practicing 3R and 5S 	<ul style="list-style-type: none"> • Lecture • Practical / Demonstration 	<ul style="list-style-type: none"> • Written examination • Demonstration with oral questioning 	1 hour
	4.2 Erect movable scaffolds or working platforms	<ul style="list-style-type: none"> • Identifying types of floor condition and preparation • Selecting baseplates or soleplate • Erecting movable scaffolds or working platforms • Practicing 3R and 5S 	<ul style="list-style-type: none"> • Lecture • Practical / Demonstration 	<ul style="list-style-type: none"> • Written examination • Demonstration with oral questioning 	2 hours

Unit of Competency	Learning Outcomes	Learning Activities	Methodologies	Assessment Methods	Nominal Duration
	4.3 Layout position of frames and panels for partition walls and/or cladding	<ul style="list-style-type: none"> • Measuring and marking dimensions and locations • Checking accuracy of layout and markings • Practicing 3R and 5S 	<ul style="list-style-type: none"> • Lecture • Practical / Demonstration 	<ul style="list-style-type: none"> • Written examination • Demonstration with oral questioning 	2 hours
	4.4 Attach frames for partition walls or cladding and panels	<ul style="list-style-type: none"> • Installing frames and fixing panels • Checking plumbness and alignment • Practicing 3R and 5S 	<ul style="list-style-type: none"> • Lecture • Practical / Demonstration 	<ul style="list-style-type: none"> • Written examination • Demonstration with oral questioning 	8 hours
	4.6 Perform housekeeping	<ul style="list-style-type: none"> • Implementing 3R and 5S 	<ul style="list-style-type: none"> • Lecture • Practical / Demonstration 	<ul style="list-style-type: none"> • Written examination • Demonstration with oral questioning 	1 hour

Unit of Competency	Learning Outcomes	Learning Activities	Methodologies	Assessment Methods	Nominal Duration
5. Install laminate floors	5.1 Prepare materials and tools	<ul style="list-style-type: none"> • Receiving and handling materials and tools at workplace • Identifying, checking and inspecting materials and tools • Practicing 3R and 5S 	<ul style="list-style-type: none"> • Lecture • Practical / Demonstration 	<ul style="list-style-type: none"> • Written examination • Demonstration with oral questioning 	1 hour
	5.2 Prepare surface	<ul style="list-style-type: none"> • Identifying and selecting of materials to use for preparation of surface • Levelling and cleaning of floor surface • Practicing 3R and 5S 	<ul style="list-style-type: none"> • Lecture • Practical / Demonstration 	<ul style="list-style-type: none"> • Written examination • Demonstration with oral questioning 	2 hours
	5.3 Layout laminate floor starter	<ul style="list-style-type: none"> • Reading and understanding sketches and working drawings • Measuring and marking dimensions • Checking accuracy of measurements and markings • Practicing 5S 	<ul style="list-style-type: none"> • Lecture • Practical / Demonstration 	<ul style="list-style-type: none"> • Written examination • Demonstration with oral questioning 	10 hours
	5.4 Place laminate floors	<ul style="list-style-type: none"> • Laying of insulation • Placing laminate floors and accessories • Checking squareness, levelness and alignment • Practicing 3R and 5S 	<ul style="list-style-type: none"> • Lecture • Practical / Demonstration 	<ul style="list-style-type: none"> • Written examination • Demonstration with oral questioning 	16 hours

Unit of Competency	Learning Outcomes	Learning Activities	Methodologies	Assessment Methods	Nominal Duration
	5.5 Perform housekeeping	<ul style="list-style-type: none"> Implementing 3R and 5S 	<ul style="list-style-type: none"> Lecture Practical / Demonstration 	<ul style="list-style-type: none"> Written examination Demonstration with oral questioning 	1 hour
6.Install parquet floors	6.1 Prepare materials and tools	<ul style="list-style-type: none"> Receiving and handling materials and tools at workplace Identifying, checking and inspecting materials and tools Practicing 3R and 5S 	<ul style="list-style-type: none"> Lecture Practical / Demonstration 	<ul style="list-style-type: none"> Written examination Demonstration with oral questioning 	1 hour
	6.2 Prepare surface	<ul style="list-style-type: none"> Identifying and selecting of materials to use for preparation of surface Levelling and cleaning of floor surface Practicing 3R and 5S 	<ul style="list-style-type: none"> Lecture Practical / Demonstration 	<ul style="list-style-type: none"> Written examination Demonstration with oral questioning 	2 hours
	6.3 Layout parquet pattern/design	<ul style="list-style-type: none"> Reading and understanding sketches and working drawings Measuring and marking dimensions Checking accuracy of measurements and markings Practicing 5S 	<ul style="list-style-type: none"> Lecture Practical / Demonstration 	<ul style="list-style-type: none"> Written examination Demonstration with oral questioning 	10 hours

Unit of Competency	Learning Outcomes	Learning Activities	Methodologies	Assessment Methods	Nominal Duration
	6.4 Place parquet	<ul style="list-style-type: none"> • Applying adhesive • Laying and fixing parquet • Checking squareness, levelness and alignment • Practicing 3R and 5S 	<ul style="list-style-type: none"> • Lecture • Practical / Demonstration 	<ul style="list-style-type: none"> • Written examination • Demonstration with oral questioning 	16 hours
	6.5 Perform housekeeping	<ul style="list-style-type: none"> • Implementing 3R and 5S 	<ul style="list-style-type: none"> • Lecture • Practical / Demonstration 	<ul style="list-style-type: none"> • Written examination • Demonstration with oral questioning 	1 hour

3.2 TRAINING DELIVERY

1. The delivery of training shall adhere to the design of the curriculum. Delivery shall be guided by the principles of competency-based TVET.
 - a. Course design is based on competency standards set by the industry or recognized industry sector; (**Learning system is driven by competencies written to industry standards**)
 - b. Training delivery is learner-centered and should accommodate individualized and self-paced learning strategies;
 - c. Training can be done on an actual workplace setting, simulation of a workplace and/or through adoption of modern technology.
 - d. Assessment is based in the collection of evidence of the performance of work to the industry required standards;
 - e. Assessment of competency takes the trainee's knowledge and attitude into account but requires evidence of actual performance of the competency as the primary source of evidence.
 - f. Training program allows for recognition of prior learning (RPL) or current competencies;
 - g. Training completion is based on satisfactory completion of all specified competencies not on the specified nominal duration of learning.
2. The competency-based TVET system recognizes various types of delivery modes, both on-and off-the-job as long as the learning is driven by the competency standards specified by the industry. The following training modalities and their variations/components may be adopted singly or in combination with other modalities when designing and delivering training programs:

2.1 Institution- Based:

- Dual Training System (DTS)/Dualized Training Program (DTP) which contain both in-school and in-industry training or fieldwork components. Details can be referred to the Implementing Rules and Regulations of the DTS Law and the TESDA Guidelines on the DTP;
- Distance learning is a formal education process in which majority of the instruction occurs when the students and

instructor are not in the same place. Distance learning may employ correspondence study, audio, video, computer technologies or other modern technology that can be used to facilitate learning and formal and non-formal training. Specific guidelines on this mode shall be issued by the TESDA Secretariat.

- The classroom-based or in-center instruction uses of learner-centered methods as well as laboratory or field-work components.

2.2 Enterprise-Based:

- Formal Apprenticeship – Training within employment involving a contract between an apprentice and an enterprise on an approved apprenticeable occupation.
- Informal Apprenticeship - is based on a training (and working) agreement between an apprentice and a master craftsman wherein the agreement may be written or oral and the master craftsman commits to training the apprentice in all the skills relevant to his or her trade over a significant period of time, usually between one and four years, while the apprentice commits to contributing productively to the work of the business. Training is integrated into the production process and apprentices learn by working alongside the experienced craftsman.
- Enterprise-based Training- where training is implemented within the company in accordance with the requirements of the specific company. Specific guidelines on this mode shall be issued by the TESDA Secretariat.

2.3 Community-Based – Community-Based – short term programs conducted by non-government organizations (NGOs), LGUs, training centers and other TVET providers which are intended to address the specific needs of a community. Such programs can be conducted in informal settings such as barangay hall, basketball courts, etc. These programs can also be mobile training program (MTP).

4.3 TRAINEE ENTRY REQUIREMENTS

Trainees or students who wish to enter this training should possess the following requirements:

- A Holder of National Certificate Level I in Civil Works or at least Junior High School Level Completer or an Alternative Learning System (ALS) Certificate of Completion with grade 10 equivalent holder
- Must have one (1) year experience in metal furring installation or in Carpentry
- Can communicate both orally and in writing
- Can perform basic mathematical computation and mensuration

4.4 LIST OF TOOLS, EQUIPMENT AND MATERIALS

List of tools, equipment and materials for the training of a maximum of 25 trainees for CARPENTRY NC III are as follows:

A. (Full Qualification)

TOOLS	
QTY	DESCRIPTION
10 pcs	Hack saw
5 pcs	Cutter, medium
5 pcs	Scoring knife
10 pcs	Claw hammer, 16 oz
10 pcs	Chalk line box
25 pcs	Pen Marker/ Pencil/Chalk stone
25 pcs	Pull-push rule (5 meters)
10 pcs	Steel square/Carpenter's square/ Steel square
10 pcs	Tri- square
10 pcs	Level bar (36 in.)
5 pcs each	Screw driver (flat and Philips)
10 pcs	Tool belt
10 pcs each	Socket wrench (19mm and 21m)
10 pcs	Plumb bob (medium)
10 pcs	Wood planer (2 in.)
12 m	Level hose, 3/8 in diameter
5 pcs	Riveter
5 pcs	Tin snip
2 pcs	Screw bit (#2)

TOOLS	
QTY	DESCRIPTION
1 pc	Sealant gun
1 unit	Vacuum cleaner

EQUIPMENT	
QTY	DESCRIPTION
5 sets	H-frame scaffolds system and accessories
2 units	Portable electric drill (variable speed)
1 unit	Aluminum ladder
2 sets	Grinder
1 unit	Floor roller
1 unit	Jigsaw

MATERIALS	
QTY	DESCRIPTION
2 sets each	For molding Fibercement molding (trim), PVC molding, aluminum / G.I. molding
40 pcs	1-1/4" Wood screw with tox
10 rolls	Nylon string (10 meters)

FOR FIBERCEMENT / GYSUM CEILING

MATERIALS	
QTY	DESCRIPTION
4pcs	Carrying channel, 0.80mm x 5.0m
8 pcs	Double-furring channel, 0.40mm x 5.0m
30 pcs	Double-furring clip
6 pc	Wall angle, 0.60mm x 3.0m
1 kgs	Concrete Nail, 1"
200 pcs	Blind Rivets, 1/8" x 3/8"
3 pcs	Fibercement boards, 4.5mm x 4' x 8'
3 pcs	Gypsum Board, 3/8" x 4' x 8'
250 pcs	Hardiedrive screw, 20mm
250 pcs	Black screw, pointed, 1"
1 pail	Hardieputty, 5kgs
1 pail	Gypsum putty, 25kgs
1 roll	Perforated paper tape, 250'
1roll	Mesh tape, 250'
2pcs	Drill bit, 1/8"

FOR ACOUSTIC CEILING

MATERIALS	
QTY	DESCRIPTION
4 pcs	Main Tee, 12'
18 pcs	Cross Tee, 4'
18 pcs	Cross Tee, 2'
5 pcs	Wall Angle, 12'
12 pcs	Steel Angle
3 kgs	GI Wire #16
22 pcs	Acoustic boards, 2'x4'

FOR EAVES/SOFFITS

MATERIALS	
QTY	DESCRIPTION
2pcs	Carrying channel, 0.80mm x 5.0m
5 pcs	Double-furring channel, 0.40mm x 5.0m
12 pcs	Double-furring clip
5 pc	Wall angle, 0.60mm x 3.0m
0.5 kgs	Concrete Nail, 1"
50 pcs	Blind Rivets, 1/8" x 3/8"
3 pcs	Fibercement boards, 4.5mm x 4' x 8'
250 pcs	Hardiedrive screw, 20mm
1 pail	Hardieputty, 5kgs
1 set	All-purpose epoxy A&B, 300ml
1 roll	Mesh tape, 250'

MATERIALS	
QTY	DESCRIPTION
2 pcs	Drill bit, 1/8"
2pcs	Fibercement vented eaves, 4.5mm x 0.60m x 1.20m
2 pcs each	PVC eaves vent, metal eaves vent / wooden eaves vent
30 pcs	Wood screw, 1-1/4"

FOR FIBERCEMENT/GYSUM PARTITION/CLADDING

MATERIALS	
QTY	DESCRIPTION
7 pcs	Metal Studs, 0.60mm x 75mm x 3.0m
3pcs	Metal Tracks, 0.60mm x 75mm x 3.0m
0.25 kgs	Concrete Nail, 1"
100 pcs	Blind Rivets, 1/8" x 3/8"
3 pcs	Fibercement boards, 6mm x 4' x 8'
3 pcs	Gypsum Board, 1/2" x 4' x 8'
200 pcs	Hardiedrive screw, 20mm
200 pcs	Black screw, pointed, 1"
1 pail	Hardieputty, 5kgs
1 pc	Drill bit, 1/8"

FOR LAMINATE FLOORING

MATERIALS	
QTY	DESCRIPTION
3 sq.m	Laminate floor, 225mm x 900mm
4 LM	PE Foam Insulation, 3mm x 1.0m
1 tb	Laminate Floor Sealant, 300ml
0.5kg	White glue
4 pcs	Rubber molding, 2"x8'

FOR PARQUET FLOORING

MATERIALS	
QTY	DESCRIPTION
3 sq.m	Parquet floor
3 sq.m	Flooring adhesive
3 kgs	Flooring adhesive
1 pc.	Sander disc

PERSONAL PROTECTIVE EQUIPMENT (PPE)	
QTY	DESCRIPTION
One per trainee	Safety shoes/ rubber boots (Trainee to provide)
One per trainee	Proper uniform/clothing (Trainee to provide)
One per trainee	Gloves (cotton) (Trainee to provide)
One per trainee	Safety goggles (Trainee to provide)
25 pcs.	Reflectorized vest

3.5 TRAINING FACILITIES

The carpentry workshop must be of concrete structure. Based on class size of 25 students/trainees the space requirements for the teaching/learning and circulation areas are as follows:

<u>Space Requirement</u>	<u>Size in Meters</u>	<u>Area in Sq. Meters</u>
Practical Training Area	15x 18	270
Library	4 x 5	20
Lecture Room	7 x 6	48
Tool Room/Storage	4 x 5	20
Wash room/Toilet	5 x 5	20
Circulation area	10 x 6	60
<u>TOTAL AREA</u>		438

3.6 TRAINERS' QUALIFICATION

- Holder of National TVET Trainer Certificate Level I (NTTC Level I) in CARPENTRY NC III
- Must have completed the 40-Hour Construction Safety Training Course (COSH) per Department Order No. 13 s. 1998, Guidelines Governing Occupational Safety and Health in the Construction Industry conducted by OSHC and DOLE accredited Safety Training Organizations
- Must have at least three (3) years industry experience in Civil works and one (1) year teaching experience in Carpentry

3.7 INSTITUTIONAL ASSESSMENT

Institutional assessment is undertaken by trainees to determine their achievement of units of competency. A certificate of achievement is issued for each unit of Competency.

SECTION 4 ASSESSMENT AND CERTIFICATION ARRANGEMENTS

Competency Assessment is the process of collecting evidence and making judgments whether competency has been achieved. The purpose of assessment is to confirm that an individual can perform to the standards expected at the workplace as expressed in relevant competency standards.

The assessment process is based on evidence or information gathered to prove achievement of competencies. The process may be applied to a full qualification or employable unit(s) of competency in partial fulfillment of the requirements of the national qualification.

4.1 NATIONAL ASSESSMENT AND CERTIFICATION ARRANGEMENTS

- 4.1.1 A National Certificate (NC) is issued when a candidate has demonstrated competence in all unit/s of competency of a qualification with a promulgated Training Regulations.
- 4.1.2 Individuals wanting to be certified will have to be assessed in accordance with the requirements identified in the evidence guide of the relevant unit/s of competency.
- 4.1.3 Holders of valid National Certificate (NC) Carpentry NC III will have to undergo assessment in the amended Training Regulations for Carpentry NC III.
- 4.1.4 Recognition of Prior Learning (RPL). Candidates who have gained competencies through informal training, previous work or life experiences may apply for recognition in a particular qualification through competency assessment.
- 4.1.5 The industry shall determine assessment and certification requirements for each qualification with promulgated Training Regulations: It includes the following:
 - a. entry requirements for candidates
 - b. evidence gathering methods
 - c. qualification requirements of competency assessors
 - d. specific assessment and certification arrangements as identified by industry

4.2 Competency Assessment Requisite

4.2.1 **Self-Assessment Guide.** The self-assessment guide (SAG) is accomplished by the candidate prior to actual competency assessment. SAG is a pre-assessment tool to help the candidate and the assessor determine what evidence is available, where gaps exist, including readiness for assessment.

This document can:

- a) Identify the candidate's skills and knowledge
- b) Highlight gaps in candidate's skills and knowledge
- c) Provide critical guidance to the assessor and candidate on the evidence that need to be presented
- d) Assist the candidate to identify key areas in which practice is needed or additional information or skills that should be gained prior

4.2.2 **Accredited Assessment Center.** Only Assessment Center accredited by TESDA is authorized to conduct competency assessment. Assessment centers undergo a quality assured procedure for accreditation before they are authorized by TESDA to manage the assessment for National Certification.

4.2.3 **Accredited Competency Assessor.** Only accredited competency assessor is authorized to conduct assessment of competence. Competency assessors undergo a quality assured system of accreditation procedure before they are authorized by TESDA to assess the competencies of candidates for National Certification.

**COMPETENCY MAP - CONSTRUCTION Sector
(Civil Works)
CARPENTRY NC III**

ANNEX A

BASIC COMPETENCIES

Receive and respond to workplace communication	Work with others	Solve/address routine problems	Enhance self-management skills	Support Innovation	Access and maintain information	Follow occupational safety and health policies and procedures	Apply environmental work standards	Adopt entrepreneurial mindset in the workplace
Participate in workplace communication	Work in Team Environment	Solve/address general workplace problems	Develop career and life decisions	Contribute to workplace innovation	Present relevant information	Practice occupational safety and health policies and procedures	Exercise efficient and effective sustainable practices in the workplace	Practice entrepreneurial skills in the workplace
Lead workplace communication	Lead small teams	Apply critical thinking and problem-solving techniques in the workplace	Work in a diverse environment	Propose methods of applying learning and innovation in the organization	Use information systematically	Evaluate occupational safety and health work practices	Evaluate environmental work practices	Facilitate entrepreneurial skills for micro-small-medium enterprises (MSMEs)

BASIC COMPETENCIES

Utilize specialize specialized communication skill	Develop and lead teams	Perform higher order thinking processes and apply techniques in the workplace	Contribute to the practice of social justice in the workplace	Manage innovative work instructions	Manage and evaluate usage of information	Lead in improvement of Occupational Safety and Health Program, Policies and Procedures	Lead towards improvement of environmental work programs, policies and procedures	Sustain entrepreneurial skills
Manage and sustain effective communication strategies	Manage and sustain high performing teams	Evaluate higher order thinking skills and adjust problem solving techniques	Advocate strategic thinking for global citizenship	Incorporate innovation into work procedures	Develop systems in managing, and maintaining information	Manage implementation of OSH programs in the workplace	Manage implementation of environmental program in the workplace	Develop and sustain a high-performing enterprise

COMMON COMPETENCIES

Prepare construction materials and tools	Observe procedures, specifications and manual of instructions	Interpret technical drawings and plans	Perform mensurations and calculations	Maintain tools and equipment
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CORE COMPETENCIES

Prepare masonry materials	Perform masonry tools and equipment	Perform basic masonry works	Lay concrete hollow block for structure	Plaster wall surface
Perform basic tile setting	Perform straight-to-finish floor concreting	Rectify non-conforming concrete and masonry surfaces	Lay tiles on plain and curved surfaces for walls, floors and other application	Repair of tiles on plain and curved surfaces
Layout reference lines	Fabricate, install and remove wooden formworks	Install wooden door jamb, window frame and panels	Install ceiling and wall frames and panels	Fabricate and install wooden stairs
Install wooden floor supports and panels	Fabricate and install roofing system	Fabricate and install wooden cabinet	Install decorative moldings	Install ceiling frames and panels or acoustical ceiling
Install eaves or soffits frames and panels and vents assembly	Install partition wall and/or cladding frames and boards	Install laminate floors	Install parquet floors	Erect and dismantle support type scaffold
Handle, segregate and stack scaffolding components				

GLOSSARY OF TERMS

1. Scaffolds any temporary elevated platform (supported or suspended) and its supporting structure (including points of anchorage), used for supporting workers or materials or both
2. Platform A raised level surface on which people or things can stand
3. Molding Is a strip of material with various profiles used to cover transitions between surfaces or for decoration purposes
4. Ceiling Panels are boards secured to a ceiling frame either by fastening or laying
5. Acoustical ceiling Also called suspended ceiling, this type of ceiling uses inter-locking tee-runners and acoustically-designed panels
6. Framing system A framing system that uses metal furrings and accessories or a grid of inter-locking tee-runners and accessories
7. Hangers A wire, strap, or rod attached to an overhead structure, used to support the framework of a suspended ceiling
8. Scaffolds and Components any temporary elevated platform including lateral and diagonal support, access and anchorage used for supporting workers or materials or both
9. Eaves or soffits frames The framework that surrounds and supports the entire eave or soffit system
10. Vents assembly Vents assembly includes a vent structure having a mounting portion securing the vent structure over the opening in an eaves or soffits
11. Hazards An agent which has the potential to cause harm
12. Surface Pertains to the area where the laminate floors will be laid
13. Leveling compound A chemical mixture used to smooth uneven concrete or wooden floors
14. Insulation Serves as cushion or underlayment for the laminate flooring

15. Laminate floor
Is a multi-layer synthetic flooring product fused together with a lamination process. It simulates wood (or sometimes stone) with a photographic applique layer under a clear protective layer. The inner core layer is usually composed of melamine resin and fiber board materials
16. Parquet
is a geometric mosaic of wood pieces used for decorative effect in flooring
17. Computer literate
This term is usually used to describe the most basic knowledge and skills needed to operate software products such as an operating system, a software application, or an automated Web design tool.
18. 5S
The five in a 5S workplace organizational and housekeeping methodology refers to five steps – sort, set in order, shine, standardize and sustain.
19. 3Rs
The principle of reducing waste, reusing and recycling resources and products
- Reduce
The waste management concept of reducing what is produced and what is consumed
- Reuse
The waste management concept of reusing items, or re-purposing them for a use different than what they are intended for
- Recycling
The waste management concept of transforming again into a raw material that can be shaped into a new item



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