TRAINING REGULATIONS

SCAFFOLDING WORKS NC II

(Supported Type Scaffold)



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

SCAFFOLDING WORKS NC II (SUPPORTED TYPE SCAFFOLD)

SECTION 1 SCAFFOLDING WORKS NC II (SUPPORTED TYPE SCAFFOLD)

The **SCAFFOLDING WORKS NC II** (Supported Type Scaffold) qualification consist of competencies that individuals must achieve to enable them to erect, check and correct and dismantle, all support type scaffold regardless of height and handle scaffold components, tools and equipment.

This qualification is packaged from the competency map of Construction Sector as shown in Annex A.

The units of competency comprising this qualification include the following:

BASIC COMPETENCIES
Participate in workplace communication
Work in a 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
COMMON COMPETENCIES
Prepare construction materials and tools
Observe procedures, specifications and manuals of instruction
Interpret technical drawings and plans
Perform mensurations and calculations
Maintain tools and equipment
CORE COMPETENCIES
Erect and dismantle supported type scaffold
Handle, segregate and stack scaffolding components

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

Scaffolder

SECTION 2 COMPETENCY STANDARDS

This section gives the details and contents of the units of competency required in SCAFFOLDING WORKS NC II (SUPPORTED TYPE SCAFFOLD). These units of competency are categorized into basic, common and core competencies.

BASIC COMPETENCIES

UNIT OF COMPETENCY: PARTICIPATE IN WORKPLACE COMMUNICATION

UNIT CODE : 400311210

UNIT DESCRIPTOR : This unit covers the knowledge, skills and attitudes required to

gather, interpret and convey information in response to workplace

	requirements.		
	PERFORMANCE		
	CRITERIA	REQUIRED	REQUIRED
ELEMENTS	<i>Italicized terms</i> are	KNOWLEDGE	SKILLS
	elaborated in the		
	Range of Variables		
1. Obtain and convey workplace information	1.1 Specific and relevant information is accessed from appropriate sources 1.2 Effective questioning, active listening and speaking skills are used to gather and convey information 1.3 Appropriate medium is used to transfer information and ideas 1.4 Appropriate nonverbal communication is used 1.5 Appropriate lines of communication with supervisors and colleagues are identified and followed 1.6 Defined workplace procedures for the location and storage of information are used 1.7 Personal interaction	1.1 Effective verbal and nonverbal communication 1.2 Different modes of communication 1.3 Medium of communication in the workplace 1.4 Organizational policies 1.5 Communication procedures and systems 1.6 Lines of Communication 1.7 Technology relevant to the enterprise and the individual's work responsibilities 1.8 Workplace etiquette	 1.1 Following simple spoken language 1.2 Performing routine workplace duties following simple written notices 1.3 Participating in workplace meetings and discussions 1.4 Preparing workrelated documents 1.5 Estimating, calculating and recording routine workplace measures 1.6 Relating/ Interacting with people of various levels in the workplace 1.7 Gathering and providing basic information in response to workplace requirements 1.8 Basic business writing skills 19 Interpersonal skills in the workplace 2.0 Active-listening skills

ELEMENTS	PERFORMANCE CRITERIA Italicized terms are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
2. Perform duties following workplace instructions	 2.1 Written notices and instructions are read and interpreted in accordance with organizational guidelines 2.2 Routine written instruction are followed based on established procedures 2.3 Feedback is given to workplace supervisor based instructions/information received 2.4 Workplace interactions are conducted in a courteous manner 2.5 Where necessary, clarifications about routine workplace procedures and matters concerning conditions of employment are sought and asked from appropriate sources 2.6 Meetings outcomes are interpreted and implemented 	2.1 Effective verbal and non-verbal communication 2.2 Different modes of communication 2.3 Medium of communication in the workplace 2.4 Organizational/ Workplace policies 2.5 Communication procedures and systems 2.6 Lines of communication 2.7 Technology relevant to the enterprise and the individual's work responsibilities 2.8 Effective questioning techniques (clarifying and probing) 2.9 Workplace etiquette	 2.1 Following simple spoken instructions 2.2 Performing routine workplace duties following simple written notices 2.3 Participating in workplace meetings and discussions 2.4 Completing workrelated documents 2.5 Estimating, calculating and recording routine workplace measures 2.6 Relating/ Responding to people of various levels in the workplace 2.7 Gathering and providing information in response to workplace requirements 2.8 Basic questioning/querying 2.9 Skills in reading for information 2.10 Skills in locating

ELEMENTS	PERFORMANCE CRITERIA Italicized terms are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
3. Complete relevant work related documents	3.1 Range of <i>forms</i> relating to conditions of employment are completed accurately and legibly 3.2 Workplace data is recorded on standard workplace forms and documents 3.3 Errors in recording information on forms/ documents are identified and acted upon 3.4 Reporting requirements to supervisor are completed according to organizational guidelines	 3.1 Effective verbal and non-verbal communication 3.2 Different modes of communication 3.3 Workplace forms and documents 3.4 Organizational/ Workplace policies 3.5 Communication procedures and systems 3.6 Technology relevant to the enterprise and the individual's work responsibilities 	 3.1 Completing work-related documents 3.2 Applying operations of addition, subtraction, division and multiplication 3.3 Gathering and providing information in response to workplace requirements 3.4 Effective record keeping skills

VARIABLES	RANGE		
1. Appropriate	May include:		
sources	1.1. Team members		
	1.2. Supervisor/Department Head		
	1.3. Suppliers		
	1.4. Trade personnel		
	1.5. Local government		
	1.6. Industry bodies		
2. Medium	May include:		
	2.1. Memorandum		
	2.2. Circular		
	2.3. Notice		
	2.4. Information dissemination		
	2.5. Follow-up or verbal instructions		
	2.6. Face-to-face communication		
	2.7. Electronic media (disk files, cyberspace)		
3. Storage	May include:		
	3.1. Manual filing system		
	3.2. Computer-based filing system		
4. Workplace	May include:		
interactions	4.1. Face-to-face		
	4.2. Telephone		
	4.3. Electronic and two-way radio		
	4.4. Written including electronic means, memos,		
	instruction and forms		
	4.5. Non-verbal including gestures, signals, signs		
	and diagrams		
5. Forms	May include:		
	5.1. HR/Personnel forms, telephone message forms, safety reports		

Critical aspects of Competency	 Assessment requires evidence that the candidate: 1.1. Prepared written communication following standard format of the organization 1.2. Accessed information using workplace communication equipment/systems 1.3. Made use of relevant terms as an aid to transfer information effectively 1.4. Conveyed information effectively adopting formal or informal communication
2. Resource Implications	The following resources should be provided: 2.1. Fax machine 2.2. Telephone 2.3. Notebook 2.4. Writing materials 2.5. Computer with Internet connection
3. Methods of Assessment	Competency in this unit may be assessed through: 3.1. Demonstration with oral questioning 3.2. Interview 3.3. Written test 3.4. Third-party report
Context for Assessment	4.1. Competency may be assessed individually in the actual workplace or through an accredited institution

UNIT OF COMPETENCY: WORK IN A TEAM ENVIRONMENT

UNIT CODE : 400311211

UNIT DESCRIPTOR

: This unit covers the skills, knowledge and attitudes to identify one's roles and responsibilities as a member of a

team.

	PERFORMANCE		
	CRITERIA	REQUIRED	REQUIRED
ELEMENTS	<i>Italicized terms</i> are	KNOWLEDGE	SKILLS
	elaborated in the		
	Range of Variables		
Describe team role and scope	 1.1 The role and objective of the team is identified from available sources of information 1.2 Team parameters, reporting relationships and responsibilities are identified from team discussions 	1.1 Group structure 1.2 Group development 1.3 Sources of information	1.1 Communicating with others, appropriately consistent with the culture of the workplace 1.2 Developing ways in improving work structure and performing respective roles in the group or
	and appropriate external sources		organization
Identify one's role and responsibility within a team	2.1 Individual roles and responsibilities within the team environment are identified 2.2 Roles and objectives of the	 2.1 Team roles and objectives 2.2 Team structure and parameters 2.3 Team development 2.4 Sources of 	2.1 Communicating with others, appropriately consistent with the culture of the workplace 2.2 Developing ways
	team is identified from available sources of information 2.3 Team parameters, reporting relationships and responsibilities are identified based on team discussions and appropriate external sources	information	in improving ways in improving work structure and performing respective roles in the group or organization

ELEMENTS	PERFORMANCE CRITERIA Italicized terms are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
3. Work as a team member	3.1 Effective and appropriate forms of communications are used and interactions undertaken with team members based on company practices. 3.2 Effective and appropriate contributions made to complement team activities and objectives, based on workplace context 3.3 Protocols in reporting are observed based on standard company practices. 3.4 Contribute to the development of team work plans based on an understanding of team's role and objectives	3.1 Communication Process 3.2 Workplace communication protocol 3.3 Team planning and decision making 3.4 Team thinking 3.5 Team roles 3.6 Process of team development 3.7 Workplace context	 3.1 Communicating appropriately, consistent with the culture of the workplace 3.2 Interacting effectively with others 3.3 Deciding as an individual and as a group using group think strategies and techniques 3.4 Contributing to Resolution of issues and concerns

VARIABLE	RANGE	
1. Role and objective	May include:	
of team	1.1. Work activities in a team environment with	
	enterprise or specific sector	
	1.2. Limited discretion, initiative and judgement	
	maybe demonstrated on the job, either	
	individually or in a team environment	
2. Sources of	May include:	
information	2.1. Standard operating and/or other workplace	
	procedures	
	2.2. Job procedures	
	2.3. Machine/equipment manufacturer's	
	specifications and instructions	
	2.4. Organizational or external personnel	
	2.5. Client/supplier instructions	
	2.6. Quality standards	
	2.7. OHS and environmental standards	
3. Workplace context	May include:	
	3.1. Work procedures and practices	
	3.2. Conditions of work environments	
	3.3. Legislation and industrial agreements	
	3.4. Standard work practice including the storage,	
	safe handling and disposal of chemicals	
	3.5. Safety, environmental, housekeeping and quality guidelines	

1. Critical aspects of	Assessment requires evidence that the candidate:
Competency	1.1. Worked in a team to complete workplace activity
	1.2. Worked effectively with others
	1.3. Conveyed information in written or oral form
	1.4. Selected and used appropriate workplace language
	1.5. Followed designated work plan for the job
2. Resource	The following resources should be provided:
Implications	2.1. Access to relevant workplace or appropriately
	simulated environment where assessment can take
	place
	2.2. Materials relevant to the proposed activity or tasks
Methods of	Competency in this unit may be assessed through:
Assessment	3.1. Role play involving the participation of individual
	member to the attainment of organizational goal
	3.3. Case studies and scenarios as a basis for discussion
	of issues and strategies in teamwork
	3.4 Socio-drama and socio-metric methods
	3.5 Sensitivity techniques
	3.6 Written Test
4. Context for	4.1. Competency may be assessed in workplace or in a
Assessment	simulated workplace setting
	4.2. Assessment shall be observed while task are being
	undertaken whether individually or in group

UNIT OF COMPETENCY: SOLVE/ADDRESS GENERAL WORKPLACE PROBLEMS

UNIT CODE : 400311212

UNIT DESCRIPTOR : This unit covers the knowledge, skills and attitudes required to

apply problem-solving techniques to determine the origin of problems and plan for their resolution. It also includes addressing

procedural problems through documentation, and referral.

ELEMENTS	PERFORMANCE CRITERIA Italicized terms are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
1. Identify routine problems	 1.1 Routine problems or procedural problem areas are identified 1.2 Problems to be investigated are defined and determined 1.3 Current conditions of the problem are identified and documented 	1.1 Current industry hardware and software products and services 1.2 Industry maintenance, service and helpdesk practices, processes and procedures 1.3 Industry standard diagnostic tools 1.4 Malfunctions and resolutions	1.1 Identifying current industry hardware and software products and services 1.2 Identifying current industry maintenance, services and helpdesk practices, processes and procedures. 1.3 Identifying current industry standard diagnostic tools 1.4 Describing common malfunctions and resolutions. 1.5 Determining the root cause of a routine malfunction

ELEMENTS	PERFORMANCE CRITERIA Italicized terms are elaborated in the Range of Variables	CRITERIA Italicized terms are elaborated in the Range of Variables REQUIRED KNOWLEDGE	
Look for solutions to routine problems	2.1 Potential solutions to problem are identified 2.2 Recommendations about possible solutions are developed, documented, ranked and presented to appropriate person for decision	2.1 Current industry hardware and software products and services 2.2 Industry service and helpdesk practices, processes and procedures 2.3 Operating systems 2.4 Industry standard diagnostic tools 2.5 Malfunctions and resolutions. 2.6 Root cause analysis	2.1 Identifying current industry hardware and software products and services 2.2 Identifying services and helpdesk practices, processes and procedures. 2.3 Identifying operating system 2.4 Identifying current industry standard diagnostic tools 2.5 Describing common malfunctions and resolutions. 2.6 Determining the root cause of a routine malfunction
3. Recommend solutions to problems	3.1 Implementation of solutions are planned 3.2 Evaluation of implemented solutions are planned 3.3 Recommended solutions are documented and submit to appropriate person for confirmation	3.1 Standard procedures 3.2 Documentation produce	3.1 Producing documentation that recommends solutions to problems 3.2 Following established procedures

	VARIABLE	RANGE
1.	Problems/Procedural Problem	 May include: 1.1 Routine/non – routine processes and quality problems 1.2 Equipment selection, availability and failure 1.3 Teamwork and work allocation problem 1.4 Safety and emergency situations and incidents 1.5 Work-related problems outside of own work area
2.	Appropriate person	May include: 2.1 Supervisor or manager 2.2 Peers/work colleagues 2.3 Other members of the organization
3.	Document	May include: 3.1 Electronic mail 3.2 Briefing notes 3.3 Written report 3.4 Evaluation report
4.	Plan	May include: 4.1 Priority requirements 4.2 Co-ordination and feedback requirements 4.3 Safety requirements 4.4 Risk assessment 4.5 Environmental requirements

1	Critical aspects of	Assessment requires evidence that the candidate:
1.	Competency	 1.1 Determined the root cause of a routine problem 1.2 Identified solutions to procedural problems. 1.3 Produced documentation that recommends solutions to problems. 1.4 Followed established procedures. 1.5 Referred unresolved problems to support persons.
2.	Resource Implications	2.1. Assessment will require access to a workplace over an extended period, or a suitable method of gathering evidence of operating ability over a range of situations.
	Methods of Assessment	Competency in this unit may be assessed through: 3.1 Case Formulation 3.2 Life Narrative Inquiry 3.3 Standardized test 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.
4.	Context for Assessment	4.1 Competency may be assessed individually in the actual workplace or simulation environment in TESDA accredited institutions.

UNIT OF COMPETENCY: DEVELOP CAREER AND LIFE DECISIONS

UNIT CODE : 400311213

UNIT DESCRIPTOR : This unit covers the knowledge, skills, and attitudes in managing

one's emotions, developing reflective practice, and boosting self-

confidence and developing self-regulation.

	PERFORMANCE			
ELEMENT	CRITERIA Italicized terms are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS	
Manage one's emotion	1.1 Self-management strategies are identified 1.2 Skills to work independently and to show initiative, to be conscientious, and persevering in the face of setbacks and frustrations are developed 1.3 Techniques for effectively handling negative emotions and unpleasant situation in the workplace are examined	1.1 Self-management strategies that assist in regulating behavior and achieving personal and learning goals (e.g. Nine self-management strategies according to Robert Kelley) 1.2 Enablers and barriers in achieving personal and career goals 1.3 Techniques in handling negative emotions and unpleasant situation in the workplace such as frustration, anger, worry, anxiety, etc.	1.1 Managing properly one's emotions and recognizing situations that cannot be changed and accept them and remain professional 1.2 Developing self-discipline, working independently and showing initiative to achieve personal and career goals 1.3 Showing confidence, and resilience in the face of setbacks and frustrations and other negative emotions and unpleasant situations in the workplace	

		PERFORMANCE		
		CRITERIA	REQUIRED	REQUIRED
	ELEMENT	<i>Italicized terms</i> are	KNOWLEDGE	SKILLS
		elaborated in the	MITTELLOCE	OIVILLO
		Range of Variables		
2.	Develop	2.1 Personal strengths	2.1 Basic SWOT	2.1 Using the basic
	reflective	and achievements,	analysis	SWOT analysis
	practice	based on self-	2.2 Strategies to	as self-
		assessment	improve one's	assessment
		strategies and teacher feedback are	attitude in the workplace	strategy
			2.3 Gibbs' Reflective	2.2 Developing
		contemplated 2.2 Progress when	Cycle/Model	reflective practice through
		seeking and	(Description,	realization of
		responding to	Feelings,	limitations, likes/
		feedback from	Evaluation,	dislikes; through
		teachers to assist	Analysis,	showing of self-
		them in consolidating	Conclusion, and	confidence
		strengths, addressing	Action plan)	2.3 Demonstrating
		weaknesses and		self-acceptance
		fulfilling their potential		and being able to
		are monitored		accept challenges
		2.3 Outcomes of personal		
		and academic		
		challenges by reflecting on previous		
		problem solving and		
		decision making		
		strategies and		
		feedback from peers		
		and teachers are		
		predicted		
3.	Boost self-	3.1 Efforts for continuous	3.1 Four components	3.1 Performing
	confidence and	self-improvement are	of self-regulation	effective
	develop self-	demonstrated	based on Self-	communication
	regulation	3.2 Counter-productive	Regulation Theory	skills – reading,
		tendencies at work are eliminated	(SRT)	writing, conversing skills
		3.3 Positive outlook in life	3.2 Personality development	SIIIIJ
		are maintained.	concepts	3.2 Showing affective
		are mamained.	3.3 Self-help concepts	skills – flexibility,
			(e. g., 7 Habits by	adaptability, etc.
			Stephen Covey,	, ,,
			transactional	3.3 Self-assessment
			analysis, psycho-	for determining
			spiritual concepts)	one's strengths
				and weaknesses

VARIABLE	RANGE
1. Self-	May include:
management	1.1 Seeking assistance in the form of job coaching or mentoring
strategies	1.2 Continuing dialogue to tackle workplace grievances
	1.3 Collective negotiation/bargaining for better working conditions
	1.4 Share your goals to improve with a trusted co-worker or supervisor
	1.5 Make a negativity log of every instance when you catch yourself complaining to others
	1.6 Make lists and schedules for necessary activities
Unpleasant	May include:
situation	2.1 Job burn-out
	2.2 Drug dependence
	2.3 Sulking

Critical aspects of Competency	Assessment requires evidence that the candidate: 1.1 Express emotions appropriately 1.2 Work independently and show initiative 1.3 Consistently demonstrate self-confidence and self-discipline	
Resource Implications	The following resources should be provided: 2.1. Access to workplace and resource s 2.2. Case studies	
3. Methods of Assessment	Competency in this unit may be assessed through: 3.1. Demonstration or simulation with oral questioning 3.2. Case problems involving work improvement and sustainability issues 3.3. Third-party report	
Context for Assessment	4.1. Competency assessment may occur in workplace or any appropriately simulated environment	

UNIT OF COMPETENCY : CONTRIBUTE TO WORKPLACE INNOVATION

UNIT CODE : 400311214

UNIT DESCRIPTOR: This unit covers the knowledge, skills and attitudes

required to make a pro-active and positive

contribution to workplace innovation.

ELEMENTS	PERFORMANCE CRITERIA Italicized terms are elaborated in the Range of Variables	CRITERIA REQUIRED Italicized terms are elaborated in the	
1.Identify opportunities to do things better.	 1.1 Opportunities for improvement are identified proactively in own area of work. 1.2 Information are gathered and reviewed which may be relevant to ideas and which might assist in gaining support for idea. 	1.1 Roles of individuals in suggesting and making improvements. 1.2 Positive impacts and challenges in innovation. 1.3 Types of changes and responsibility. 1.4 Seven habits of highly effective people.	1.1 Identifying opportunities to improve and to do things better. Involvement. 1.2 Identifying the positive impacts and the challenges of change and innovation. 1.3 Identifying examples of the types of changes that are within and outside own scope of responsibility
2. Discuss and develop ideas with others	 2.1 People who could provide input to ideas for improvements are identified. 2.2 Ways of approaching people to begin sharing ideas are selected. 2.3 Meeting is set with relevant people. 2.4 Ideas for follow up are review and selected based on feedback. 2.5 Critical inquiry method is used to discuss and develop ideas with others. 	 2.1 Roles of individuals in suggesting and making improvements. 2.2 Positive impacts and challenges in innovation. 2.3 Types of changes and responsibility. 2.4 Seven habits of highly effective people. 	2.1 Identifying opportunities to improve and to do things better. Involvement. 2.2 Identifying the positive impacts and the challenges of change and innovation. 2.3 Providing examples of the types of changes that are within and outside own scope of responsibility 2.4 Communicating ideas for change through small group discussions and meetings.

ELEMENTS	PERFORMANCE CRITERIA Italicized terms are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
3. Integrate ideas for change in the workplace.	 3.1 Critical inquiry method is used to integrate different ideas for change of key people. 3.2 Summarizing, analyzing and generalizing skills are used to extract salient points in the pool of ideas. 3.3 Reporting skills are likewise used to communicate results. 3.4 Current Issues and concerns on the systems, processes and procedures, as well as the need for simple innovative practices are identified. 	 3.1 Roles of individuals in suggesting and making improvements. 3.2 Positive impacts and challenges in innovation. 3.3 Types of changes and responsibility. 3.4 Seven habits of highly effective people. 3.5 Basic research skills. 	 3.1 Identifying opportunities to improve and to do things better. Involvement. 3.2 Identifying the positive impacts and the challenges of change and innovation. 3.3 Providing examples of the types of changes that are within and outside own scope of responsibility. 3.4 Communicating ideas for change through small group discussions and meetings. 3.5 Demonstrating skills in analysis and interpretation of data.

VARIABLES	RANGE
Opportunities for	May include:
improvement	1.1 Systems.
	1.2 Processes.
	1.3 Procedures.
	1.4 Protocols.
	1.5 Codes.
	1.6 Practices.
2. Information	May include:
	2.1 Workplace communication problems.
	2.2 Performance evaluation results.
	2.3 Team dynamics issues and concerns.
	2.4 Challenges on return of investment
	2.5 New tools, processes and procedures.
	2.6 New people in the organization.
3. People who could provide	May include:
input	3.1 Leaders.
	3.2 Managers.
	3.3 Specialists.
	3.4 Associates.
	3.5 Researchers.
	3.6 Supervisors.
	3.7 Staff.
	3.8 Consultants (external)
	3.9 People outside the organization in the
	same field or similar expertise/industry.
	3.10 Clients

4. Critical inquiry method	May i	nclude:
i. Ontodi iriqdiry motriod	4.1	
		Discussion.
		Clarification of goals.
	4.4	Negotiate towards a Win-Win outcome.
	4.5	
		Implementation of a course of action.
	4.7	•
	4.7	our pages: Verbal Communication and
		Effective Speaking.
	4.8	Listening.
	4.9	Reducing misunderstandings is a key
	4.9	part of effective negotiation.
	4.10	•
		Problem Solving.
		Decision Making.
		Assertiveness.
	_	
E. Donouting okillo	4.14	<u> </u>
5. Reporting skills	_	nclude:
	5.1	Data management.
	5.2	Coding.
	5.3	,
	5.4	Coherent writing.
	5.5	Speaking.

1 4	0.141 1 4 6	_	
	Critical aspects of		essment requires evidence that the candidate:
(Competency	1.1	Identified opportunities to do things better.
		1.2	Discussed and developed ideas with others on
			how to contribute to workplace innovation.
		1.3	Integrated ideas for change in the workplace.
		1.4	Analyzed and reported rooms for innovation
			and learning in the workplace.
2.	Resource	The	following resources should be provided:
	Implications	2.1	Pens, papers and writing implements.
		2.2	Cartolina.
		2.3	Manila papers.
3.	Methods of	Com	petency in this unit may be assessed
	Assessment		
		3.1	<u> </u>
		3.2	Performance Evaluation.
		3.3	Life Narrative Inquiry.
		3.4	
			· · · · · · · · · · · · · · · · · · ·
		3.5	
		3.6	
			•
4.	Context for	4.1	· · ·
			•
3.	Implications Methods of	2.1 2.2 2.3 Com throu 3.1 3.2 3.3 3.4	Cartolina. Manila papers. petency in this unit may be assessed ugh: Psychological and behavioral Interviews.

UNIT OF COMPETENCY: PRESENT RELEVANT INFORMATION

UNIT CODE 400311215

This unit of covers the knowledge, skills and attitudes required to present data/information appropriately. **UNIT DESCRIPTOR**

		ERFORMANCE				
		CRITERIA		REQUIRED		REQUIRED
ELEMENTS	Ita	licized terms are		KNOWLEDGE		SKILLS
ELEIVIENTS		laborated in the		KNOWLEDGE		SKILLS
	_					
4 Cathan		ange of Variables	4 4	Overenie etie e el	4 4	Decembries
1. Gather	1.1	Evidence, facts	1.1	Organisational	1.1	Describing
data/ information		and information are collected	4.0	protocols		organisational
iniormation	1.2			Confidentiality Accuracy		protocols relating to client liaison
	1.2	of reference and		Business	1 2	Protecting
		conditions are	1.4	mathematics and	1.2	confidentiality
		reviewed to		statistics	1 3	Describing
		determine	1.5	Data analysis	1.0	accuracy
		whether		techniques/proced	1.4	Computing
		data/information		ures		business
		falls within	1.6	Reporting		mathematics and
		project scope		requirements to a		statistics
				range of audiences	1.5	Describing data
			1.7	Legislation, policy		analysis
				and procedures		techniques/
				relating to the		procedures
				conduct of	1.6	Reporting
				evaluations		requirements to a
			1.8	0	l	range of audiences
				values, ethics and	1.7	Stating legislation,
				codes of conduct		policy and
						procedures relating
						to the conduct of
					1 0	evaluations Stating
					1.0	organisational
						values, ethics and
						codes of conduct
2. Assess	2.1	Validity of data/	2.1	Business	2.1	Computing
gathered		information is		mathematics and		business
data/		assessed		statistics		mathematics and
information	2.2	Analysis	2.2			statistics
		techniques are		techniques/	2.2	Describing data
		applied to assess		procedures		analysis
		data/ information.	2.3	Reporting		techniques/
	2.3	Trends and		requirements to a		procedures
		anomalies are		range of audiences	2.3	
		identified	2.4	Legislation, policy		requirements to a
	2.4	Data analysis		and procedures		range of
		<i>techniques</i> and		relating to the		audiences

ELEMENTS	PERFORMANCE CRITERIA Italicized terms are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
	procedures are documented 2.5 Recommendation s are made on areas of possible improvement.	conduct of evaluations 2.5 Organisational values, ethics and codes of conduct	 2.4 Stating legislation, policy and procedures relating to the conduct of evaluations 2.5 Stating organisational values, ethics and codes of conduct
3. Record and present information	3.1 Studied data/information are recorded. 3.2 Recommendation s are analysed for action to ensure they are compatible with the project's scope and terms of reference. 3.3 Interim and final reports are analysed and outcomes are compared to the criteria established at the outset. 3.4 Findings are presented to stakeholders.	3.1 Data analysis techniques/ procedures 3.2 Reporting requirements to a range of audiences 3.3 Legislation, policy and procedures relating to the conduct of evaluations 3.4 Organisational values, ethics and codes of conduct	3.1 Describing data analysis techniques/ procedures 3.2 Reporting requirements to a range of audiences 3.3 Stating legislation, policy and procedures relating to the conduct of evaluations 3.4 Stating organisational values, ethics and codes of conduct practices

VARIABLES	RANGE
Data analysis techniques	May include: 1.1. Domain analysis 1.2. Content analysis 1.3. Comparison technique

1. Critical aspects of Competency 1.1 Determine data / information 1.2 Studied and applied gathered data/information 1.3 Recorded and studied studied data/information 1.4 Recorded and studied studied data/information 1.5 Recorded and studied studied data/information These aspects may be best assessed using a range of scenarios what ifs as a stimulus with a walk through forming part of the response. These assessment activities should include a range of problems, including new, unusual and improbable situations that may have happened. 2. Resource Implications Specific resources for assessment 2.1 Evidence of competent performance should be obtained by observing an individual in an information management role within the workplace or operational or simulated environment. 3. Methods of Assessment Competency in this unit may be assessed through: 3.1 Written Test 3.2 Interview 3.3 Portfolio 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. 4. Context for Assessment 4. Context for Assessment	4 0	ti1	Assessment no united and demand that the countillates
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obtained by observing an individual in an information management role within the workplace or operational or simulated environment. 3. Methods of Assessment 3.1. Written Test 3.2. Interview 3.3. Portfolio 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. 4. Context for Assessment 4.1. In all workplace, it may be appropriate to assess this unit concurrently with relevant teamwork or operation	2. Re	source	Specific resources for assessment
Assessment 3.1. Written Test 3.2. Interview 3.3. Portfolio 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. 4. Context for Assessment 4.1. In all workplace, it may be appropriate to assess this unit concurrently with relevant teamwork or operation			2.1. Evidence of competent performance should be obtained by observing an individual in an information management role within the workplace or operational or simulated environment.
3.2. Interview 3.3. Portfolio 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. 4. Context for Assessment 4.1. In all workplace, it may be appropriate to assess this unit concurrently with relevant teamwork or operation	3. Me	thods of	
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Assessment unit concurrently with relevant teamwork or operation			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.
	Ass	sessment	•

UNIT OF COMPETENCY: PRACTICE OCCUPATIONAL SAFETY AND HEALTH POLICIES

AND PROCEDURES

UNIT CODE : 400311216

UNIT DESCRIPTOR: This unit covers the knowledge, skills and attitudes required to

identify OSH compliance requirements, prepare OSH requirements for compliance, perform tasks in accordance

with relevant OSH policies and procedures

ELEMENTS	PERFORMANCE CRITERIA Italicized terms are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
Identify OSH compliance requirements	1.1 Relevant OSH requirements, regulations, policies and procedures are identified in accordance with workplace policies and procedures 1.2 OSH activity non- conformities are conveyed to appropriate personnel 1.3 OSH preventive and control requirements are identified in accordance with OSH work policies and procedures	 1.1. OSH preventive and control requirements 1.2. Hierarchy of Controls 1.3. Hazard Prevention and Control 1.4. General OSH principles 1.5. Work standards and procedures 1.6. Safe handling procedures of tools, equipment and materials 1.7. Standard emergency plan and procedures in the workplace 	 1.1. Communication skills 1.2. Interpersonal skills 1.3. Critical thinking skills 1.4. Observation skills

ELEMENTS	PERFORMANCE CRITERIA Italicized terms are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
Prepare OSH requirements for compliance	2.1 OSH work activity material, tools and equipment requirements are identified in accordance with workplace policies and procedures 2.2. Required OSH materials, tools and equipment are acquired in accordance with workplace policies and procedures 2.3. Required OSH materials, tools and equipment are arranged/placed in accordance with OSH work standards	2.1. Resources necessary to execute hierarchy of controls 2.2. General OSH principles 2.3. Work standards and procedures 2.4. Safe handling procedures of tools, equipment and materials 2.5. Different OSH control measures	 2.1. Communication skills 2.2. Estimation skills 2.3. Interpersonal skills 2.4. Critical thinking skills 2.5. Observation skills 2.6. Material, tool and equipment identification skills
3. Perform tasks in accordance with relevant OSH policies and procedures	3.1 Relevant OSH work procedures are identified in accordance with workplace policies and procedures 3.2 Work Activities are executed in accordance with OSH work standards 3.3 Non-compliance work activities are reported to appropriate personnel	3.1. OSH work standards 3.2. Industry related work activities 3.3. General OSH principles 3.4. OSH Violations Non-compliance work activities	3.1 Communication skills 3.3 Interpersonal skills 3.4 Troubleshooting skills 3.5 Critical thinking skills 3.6 Observation skills

VARIABLE	RANGE
1. OSH Requirements,	May include:
Regulations, Policies and	1.1 Clean Air Act
Procedures	1.2 Building code
	1.3 National Electrical and Fire Safety Codes
	1.4 Waste management statutes and rules
	1.5 Permit to Operate
	Philippine Occupational Safety and Health Standards
	1.7 Department Order No. 13 (Construction Safety and Health)
	1.8 ECC regulations
2. Appropriate Personnel	May include:
	2.1 Manager
	2.2 Safety Officer
	2.3 EHS Offices
	2.4 Supervisors
	2.5 Team Leaders
	2.6 Administrators
	2.7 Stakeholders
	2.8 Government Official
	2.9 Key Personnel
	2.10 Specialists
	2.11 Himself
3. OSH Preventive and	May include:
Control Requirements	3.1 Resources needed for removing hazard effectively
	3.2 Resources needed for substitution or
	replacement
	3.3 Resources needed to establishing engineering controls
	3.4 Resources needed for enforcing administrative
	controls
	3.5 Personal Protective equipment
4. Non OSH-Compliance	May include non-compliance or observance of the
Work Activities	following safety measures:
	4.1 Violations that may lead to serious physical
	harm or death
	4.2 Fall Protection
	4.3 Hazard Communication
	4.4 Respiratory Protection
	4.5 Power Industrial Trucks
	4.6 Lockout/Tag-out
	4.7 Working at heights (use of ladder, scaffolding)
	4.8 Electrical Wiring Methods

Revision 01

4.9 Machine Guarding
4.10 Electrical General Requirements
4.11 Asbestos work requirements
4.12 Excavations work requirements

Critical aspects of	Assessment requires evidence that the candidate:
Competency	1.1. Convey OSH work non-conformities to
	appropriate personnel
	1.2. Identify OSH preventive and control
	requirements in accordance with OSH work
	policies and procedures
	1.3. Identify OSH work activity material, tools and
	equipment requirements in accordance with
	workplace policies and procedures 1.4. Arrange/Place required OSH materials, tools and
	equipment in accordance with OSH work
	standards
	1.5. Execute work activities in accordance with OSH
	work standards
	1.6. Report OSH activity non-compliance work
	activities to appropriate personnel
Resource Implications	·
	• •
3. Methods of Assessment	•
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A. Contout for Appagament	1 / 1
4. Context for Assessment	' ' '
	place of ill a simulated work place setting
Resource Implications Methods of Assessment 4. Context for Assessment	1.5. Execute work activities in accordance with OSH work standards1.6. Report OSH activity non-compliance work

UNIT OF : EXERCISE EFFICIENT AND EFFECTIVE SUSTAINABLE

COMPETENCY PRACTICES IN THE WORKPLACE

UNIT CODE : 400311217

UNIT DESCRIPTOR This unit covers knowledge, skills and attitude to identify the

efficiency and effectiveness of resource utilization, determine causes of inefficiency and/or ineffectiveness of resource utilization

and Convey inefficient and ineffective environmental practices

ELEMENTS	PERFORMANCE CRITERIA Italicized terms are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
Identify the efficiency and effectiveness of resource utilization	1.1 Required resource utilization in the workplace is measured using appropriate techniques 1.2 Data are recorded in accordance with workplace protocol 1.3 Recorded data are compared to determine the efficiency and effectiveness of resource utilization according to established environmental work procedures	1.1. Importance of Environmental Literacy 1.2. Environmental Work Procedures 1.3. Waste Minimization 1.4. Efficient Energy Consumptions	1.1 Recording Skills 1.2 Writing Skills 1.3 Innovation Skills
Determine causes of inefficiency and/or ineffectiveness of resource utilization	2.1 Potential causes of inefficiency and/or ineffectiveness are listed 2.2 Causes of inefficiency and/or ineffectiveness are identified through deductive reasoning 2.3 Identified causes of inefficiency and/or ineffectiveness are validated thru established environmental procedures	2.1 Causes of environmental inefficiencies and ineffectiveness	2.1 Deductive Reasoning Skills 2.2 Critical thinking 2.3 Problem Solving 2.4 Observation Skills

Revision 01

ELEMENTS	PERFORMANCE CRITERIA Italicized terms are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
3. Convey inefficient and ineffective environmental practices	3.1 Efficiency and effectiveness of resource utilization are reported to appropriate personnel 3.2 Concerns related resource utilization are discussed with appropriate personnel 3.3 Feedback on information/ concerns raised are clarified with appropriate personnel	3.1 Appropriate Personnel to address the environmental hazards 3.2 Environmental corrective actions	3.1 Written and Oral Communication Skills 3.2 Critical thinking 3.3 Problem Solving 3.4 Observation Skills 3.5 Practice Environmental Awareness

VARIABLE	RANGE
Environmental Work	May include:
Procedures	1.1 Utilization of Energy, Water, Fuel Procedures
	1.2 Waster Segregation Procedures
	1.3 Waste Disposal and Reuse Procedures
	1.4 Waste Collection Procedures
	1.5 Usage of Hazardous Materials Procedures
	1.6 Chemical Application Procedures
	1.7 Labeling Procedures
2. Appropriate Personnel	May include:
	2.1 Manager
	2.2 Safety Officer
	2.3 EHS Offices
	2.4 Supervisors
	2.5 Team Leaders
	2.6 Administrators
	2.7 Stakeholders
	2.8 Government Official
	2.9 Key Personnel
	2.10 Specialists
	2.11 Himself

Assessment requires evidence that the candidate:
1.1. Measured required resource utilization in the
workplace using appropriate techniques
1.2. Recorded data in accordance with workplace protocol
1.3. Identified causes of inefficiency and/or ineffectiveness through deductive reasoning
1.4. Validate the identified causes of inefficiency and/or
ineffectiveness thru established environmental
procedures
1.5. Report efficiency and effectives of resource utilization
to appropriate personnel
1.6. Clarify feedback on information/concerns raised with
appropriate personnel
The following resources should be provided:
2.1 Workplace
2.2 Tools, materials and equipment relevant to the tasks
2.3 PPE
2.4 Manuals and references
Competency in this unit may be assessed through:
3.1 Demonstration
3.2 Oral questioning
3.3 Written examination
4.1 Competency assessment may occur in workplace or
any appropriately simulated environment
4.2 Assessment shall be observed while task are being
undertaken whether individually or in-group

UNIT OF COMPETENCY : PRACTICE ENTREPRENEURIAL SKILLS IN THE

WORKPLACE

UNIT CODE : 400311218

UNIT DESCRIPTOR : This unit covers the outcomes required to apply

entrepreneurial workplace best practices and implement

cost-effective operations

ELEMENTS	PERFORMANCE CRITERIA Italicized terms are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
1. Apply entrepreneurial workplace best practices	1.1 Good practices relating to workplace operations are observed and selected following workplace policy. 1.2 Quality procedures and practices are complied with according to workplace requirements. 1.3 Cost-conscious habits in resource utilization are applied based on industry standards.	1.1 Workplace best practices, policies and criteria 1.2 Resource utilization 1.3Ways in fostering entrepreneurial attitudes: - Patience - Honesty - Quality-consciousness - Safety-consciousness - Resourcefulness	1.1 Communication skills 1.2 Complying with quality procedures
Communicate entrepreneurial workplace best practices	 2.1 Observed good practices relating to workplace operations are communicated to appropriate person. 2.2 Observed quality procedures and practices are communicated to appropriate person 2.3 Cost-conscious habits in resource utilization are communicated based on industry standards. 	2.1 Workplace best practices, policies and criteria 2.2 Resource utilization 2.3 Ways in fostering entrepreneurial attitudes: - Patience - Honesty - Quality-consciousness - Safety-consciousness - Resourcefulness	2.1 Communication skills 2.2 Complying with quality procedures 2.3 Following workplace communication protocol

ELEMENTS	PERFORMANCE CRITERIA Italicized terms are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
3. Implement cost- effective operations	3.1 Preservation and optimization of workplace resources is implemented in accordance with enterprise policy 3.2 Judicious use of workplace tools, equipment and materials are observed according to manual and work requirements. 3.3 Constructive contributions to office operations are made according to enterprise requirements. 3.4 Ability to work within one's allotted time and finances is sustained.	3.1 Optimization of workplace resources 3.2 5S procedures and concepts 3.3 Criteria for costeffectiveness 3.4 Workplace productivity 3.5 Impact of entrepreneurial mindset to workplace productivity 3.6 Ways in fostering entrepreneurial attitudes: - Quality-consciousness - Safety-consciousness	3.1 Implementing preservation and optimizing workplace resources 3.2 Observing judicious use of workplace tools, equipment and materials 3.3 Making constructive contributions to office operations 3.4 Sustaining ability to work within allotted time and finances

VARIABLE	RANGE
1.Good practices	May include: 1.1 Economy in use of resources 1.2 Documentation of quality practices
2.Resources utilization	May include: 2.1 Consumption/ use of consumables 2.2 Use/Maintenance of assigned equipment and furniture 2.3 Optimum use of allotted /available time

Critical aspects of competency	Assessment requires evidence that the candidate: 1.1 Demonstrated ability to identify and sustain cost- effective activities in the workplace 1.2 Demonstrated ability to practice entrepreneurial knowledge, skills and attitudes in the workplace.
2. Resource Implications	The following resources should be provided: 2.1 Simulated or actual workplace 2.2 Tools, materials and supplies needed to demonstrate the required tasks 2.3 References and manuals 2.3.1 Enterprise procedures manuals 2.3.2 Company quality policy
3. Methods of Assessment	Competency in this unit should be assessed through: 3.1 Interview 3.2 Third-party report
4.Context of Assessment	4.1 Competency may be assessed in workplace or in a simulated workplace setting4.2 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 Italicized terms are elaborated in the Range of Variable	REQUIRED KNOWLEDGE	REQUIRED SKILLS
1. Identify materials	 1.1 Materials are identified as per job requirements 1.2 Quantity and description of materials and tools conform with the job requirements 1.3 Tools and accessories are identified according to job requirements 	1.1 Different work specifications1.2 Types and uses of heavy equipment tools and accessories	1.1 Identifying tools and accessories according to the job requirements
2. Prepare requisition of materials	2.1 Materials and tools needed are requested according to the identified requirements 2.2 Request is done as per company standard operating procedures (SOP) 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 heavy equipment 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

	VARIABLE	RANGE
1.	Description of materials and tools	May include: 2.1 Brand name 2.2 Size 2.3 Capacity 2.4 Kind of application
2.	Tools and accessories	May include: 1.1 Electrical supplies 1.2 Mechanical supplies 1.3 Cleaning supplies
3.	Company standard operating procedures	May include: 3.1 Job order 3.2 Requisition slip 3.3 Borrower slip

Critical aspects of Competency	 Assessment requires evidence that the candidate: 1.1 Listed materials and tools according to quantity and job requirements 1.2 Requested materials and tools according to the list prepared and as per company SOP 1.3 Inspected issued materials and tools as per quantity and job specifications 1.4 Provided tools with safety devices 	
2. Resource Implications	The following resources should be provided: 2.1 Workplace location	
	2.2 Materials relevant to the unit of competency	
	2.3 Plans, drawings and specifications relevant to the activities	
3. Methods of	Competency in this unit may be assessed through:	
Assessment	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 : 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 Italicized terms are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
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 heavy equipment operation 1.2 Identification of symbols used in the manuals	1.1 Identifying manuals and specifications1.2 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 heavy equipment operation 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 Italicized terms are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
3. Apply information in manual	3.1 <i>Manual</i> 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 heavy equipment operation 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 heavy equipment operation4.2 Manual storing and maintaining procedures	4.1 Storing and maintaining manuals

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

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
Resource implications	The following resources should be provided: 2.1 All manuals/catalogues relative to construction sector
Methods of assessment	Competency in this unit may be assessed through: 3.1 Direct observation/Demonstration with Oral Questioning
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.

	PERFORMANCE		
ELEMENTS	CRITERIA Italicized terms are elaborated in the Range of Variables	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	1.1 Systems of measurement 1.2 Linear measurement 1.3 Dimension 1.4 Unit conversion	1.1 Interpreting drawing 1.2 Matching specification details with existing resources

VARIABLE	RANGE
1. Signs and	May include:
symbols	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
2 Tools and	May include:
materials	2.1 Rulers
	2.2 Protractor
	2.3 Steel tape
	2.4 Calculator
	2.5 Pencil
3 Work plan	May include:
	3.1 Job requirements
	3.2 Installation instructions
	3.3 Components instruction

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

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 Italicized terms are elaborated in the Range of Variable	REQUIRED KNOWLEDGE	REQUIRED SKILLS
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 Italicized terms are elaborated in the Range of Variable	REQUIRED KNOWLEDGE	REQUIRED SKILLS
2. Carry out measurements and calculations	2.1 Measurements 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 Work pieces are measured according to job requirements	2.1 Measurements 2.1.1 Linear measurement 2.1.2 Geometrical measurement 2.2 Trade Mathematics 2.2.1 Unit conversion 2.2.2 Ratio and proportion 2.3 Area	2.1 Interpreting formulas for volume, areas, perimeters of plane and geometric figures 2.2 Handling of measuring instruments

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	May include:
instruments	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	May include:
and calculations	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

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

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 Italicized terms are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
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 Italicized terms are elaborated in the Range of Variables	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 Italicized terms are elaborated in the Range of Variables	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

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	May include:		
Equipment (PPE)	3.1 Goggles		
	3.2 Gloves		
	3.3 Safety shoes		
	3.4 Hard hat		
	3.5 Reflectorized Vest		

1. Critical aspects of	Assessment requires that the candidate:		
competency	3.1 Selected and used appropriate processes, tools and equipment to carry out task		
	3.2 Identified functional and non-functional tools and equipment		
	3.3 Checked, lubricated and calibrated tools, equipment and instruments according to manufacturer's specifications		
	3.4 Replaced defective tools, equipment and their accessories		
	3.5 Observed and applied safe handling of tools and equipment and safety work practices		
	3.6 Prepared and submitted inventory report, where applicable		
	3.7 Maintained workplace in accordance with OSHA regulations		
	3.8 Stored tools and equipment safely in appropriate locations and in		
	accordance with company practices		
2. Resource	The following resources should be provided:		
implications	2.1 Workplace		
	2.2 Maintenance schedule		
	2.3 Maintenance materials, tools and equipment relevant to the		
	proposed activity/task		
3. Methods of	Competency in this unit may be assessed through:		
assessment	3.1 Direct observation/Demonstration with Oral Questioning		
	3.2 Written Examination		
4. Context of	4.1 Competency may be assessed in actual workplace or at the		
assessment	designated TESDA Accredited Assessment Center.		

CORE COMPETENCIES

UNIT OF COMPETENCY : ERECT AND DISMANTLE SUPPORTED TYPE

SCAFFOLD

UNIT CODE : CON711323

UNIT DESCRIPTOR : This unit describes the knowledge, skills and attitudes

for scaffold erection and dismantling, particularly planning, preparing and operating This is in order to provide work platforms, edge protection and access

ways in accordance with industry practice.

ELEMENT	PERFORMANCE CRITERIA Italicized terms are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
Plan and prepare for operation	 1.1 Personal protective equipment (PPE) is used in accordance with Rule 1080 of Occupational Safety and Health Standards 1.1 Purpose of scaffolding is determined with associated activities 1.2 Site rules and regulations in erecting scaffold is observed and followed according to safety and health practices 1.3 Work instruction and drawing are reviewed, confirmed and clarified with the supervisor. 1.4 Tools and Equipment are checked and segregated in accordance to industry practice 1.5 Scaffold components are identified in accordance to industry practice 1.6 Types of supported scaffold and its capacity are understood for the necessary job requirement 	 1.1 DO 128-13 familiarity 1.2 Green Building Concept relative to Construction (3R, 5S) 1.3 Basic English and Filipino language (written and verbal) 1.4 Types and uses of communication media 1.5 Interpreting sketches and plans 1.6 Site rules and regulations 1.7 Physical assessment of Site condition 1.8 Site access 1.9 Emergency route 1.10Safety office 1.12Emergency procedures 1.13Basic Scaffold design 1.14Steel types and grades 	1.1 Using communication medium 1.2 Applying trade Mathematics and factor of safety 1.3 Checking and segregating scaffold components 1.4 Preparing sketches 1.5 Assessing of site condition 1.6 Using PPE 1.7 Implementing 5S

ELEMENT	PERFORMANCE CRITERIA Italicized terms are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
	 1.7 Obstructions and hazards in the job site are checked, identified reported 1.8 Proposed sketches of modified scaffold are drawn in accordance to site condition/project requirements 1.9 Communication and coordination with other workers is established and maintained in accordance to job requirement 1.10 Safety practices are applied according to OSHS and other applicable references 1.11 Work area is cleaned according to safety and environmental regulations (e.g. PD 1152 Section 6, 8 & 42) 1.12 Required output is completed as specified by the immediate supervisor based on work schedule. 	1.15 Trade Mathematics Basic planar measurement (English, metric) 1.16Basic weight measurement (English, metric) 1.17Types and uses of scaffold and components 1.18Visual check of tools, equipment and scaffold components 1.19Lifting equipment and accessories 1.20Erection methodology of supported type scaffold 1.21Different manufactured scaffold	

ELEMENT	PERFORMANCE CRITERIA Italicized terms are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
2. Install scaffold	 2.1 Personal protective equipment (PPE) is used in accordance with Rule 1080 of Occupational Safety and Health Standards 2.1 Scaffolding plan/ drawing is observed in compliance with work instruction. 2.2 Site and foundation are prepared in accordance with OSHS requirements, codes of practice and engineer's instructions 2.3 Plans are laid-out as per design or manufacturer's specification 2.4 Footings are prepared in accordance with OSHS requirements, codes of practice, manufacturer specifications and engineer's instructions 2.5 Scaffold is erected in accordance with OSHS and / or Department Order (DO128-13) requirements and manufacturer 2.6 Specifications or design by the structural engineer. 2.7 Lifting devices are assembled and erected in accordance with OSHS requirements and manufacturer specifications 2.8 Access ladders are used in accordance with industry standard or manufacturer's specifications 2.8 Access ladders are used in accordance with industry standard or manufacturer's specifications 	2.1 DO 128-13, series 2013 Amending Rule 1414 on Scaffolding of the OSHS 2.2 Green Building Concept relative to Construction (3R, 5S) 2.3 Standard procedure in the erection of scaffold 2.4 OSHS and other relevant regulatory requirements in erecting scaffold 2.5 Emergency preparedness and response 2.6 Site condition 2.7 Base to height ratio 2.8 Trade Mathematics 2.9 Basic planar measurement (English, metric) 2.10 Basic weight measurement (English, metric) 2.11 Types and uses of scaffolding 2.12 Types and uses of lifting devices 2.13 Types and uses od scaffold hand tools 2.14 Factors affecting productivity	3.1 Following OSHS and other relevant regulatory requirements for erecting scaffolding 3.2 Applying emergency preparedness and response 3.3 Concepts 3.4 Using PPE 3.5 Using communication medium 3.6 Applying productive methods and techniques in 3.7 erecting 3.8 scaffolding 3.9 Setting, using and maintaining access ladders 3.10 Testing of scaffold component 's connections 3.11 Applying basic mensuration 3.12 Using and maintaining tools 3.13 Implementing 3R and 5S

ELEMENT	PERFORMANCE CRITERIA Italicized terms are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
	2.9 Scaffold erection hand tools are identified, secured to prevent fall, properly used and maintained 2.10 Fall protection devices are installed in accordance with job specification and OSHS requirements 2.11Safety practices are applied according to OSHS and other applicable references 2.12Work area is cleaned according to safety and environmental regulations (e.g. PD 1152 Section 6, 8 & 42) 2.13Required output is completed as specified by the immediate supervisor based on work schedule.	2.15 Productivity work measurements 2.16 Ways of improving productivity	

ELEMENT	PERFORMANCE CRITERIA Italicized terms are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
3. Check and correct erected scaffold	3.1 Personal protective equipment (PPE) is used in accordance with Rule 1080 of Occupational Safety and Health Standards 3.2 Erected scaffold is visually inspected to check conformity using checking tools and instruments in accordance with the given instruction/ plan. 3.3 Faulty components are identified and reported to personnel in line with company standard operating procedure 3.4 Scaffolding non stability is reported to personnel in line with company safe operating procedures 3.5 Erected scaffold are not used unless inspected and tagged by a qualified person as defined in Department Order (DO 128-13) 3.6 Safety practices are applied according to OSHS and other applicable references 3.7 Work area is cleaned according to safety and environmental regulations (e.g. PD 1152 Section 6, 8 & 42) 3.8 Required output is completed as specified by the immediate supervisor based on work schedule.	3.1 DO 128-13, series 2013 amending Rule 1414 on Scaffolding of the OSHS) 3.2 Green Building Concept relative to Construction (3R, 5S) 3.3 Inspecting and correcting scaffolding 3.4 Written and oral reporting 3.5 Basic technique to check and correct alignment and verticality. 3.6 Trade Mathematics 3.7 Load testing procedure 3.8 Basic planar measurement (English, metric) 3.9 Basic weight measurement (English, metric) 3.10 Basic testing of scaffold component (clamps, clips, sole plate, etc.) 3.11 Use of checking instruments 3.12 Snug fit 3.13 Factors affecting productivity work measurements 3.14 Productivity work measurements 3.15 Ways of improving productivity	communication medium 3.2 Applying trade Mathematics 3.3 Performing good housekeeping 3.4 Applying the use of checking instruments 3.5 Applying productive method and techniques in inspecting and

	PERFORMANCE CRITERIA	REQUIRED	
ELEMENT	Italicized terms are elaborated in the Range of Variables	KNOWLEDGE	REQUIRED SKILLS
4. Dismantle scaffold	4.1 Personal protective equipment (PPE) is used in accordance with Rule 1080 of Occupational Safety and Health Standards 4.2 Perimeter is secured with barriers and signage. 4.3 Fall protection devices are installed in accordance with job specification and OSHS requirements and other applicable references 4.4 Scaffold is dismantled using reverse procedure of erection by lowering scaffold components in accordance to standard work procedures 4.5 Tools and instruments are cleaned, checked, maintained and stored 4.6 Work area is cleaned according to safety and environmental regulations (e.g. PD 1152 Section 6, 8 & 42) 4.7 Required output is completed as specified by the immediate supervisor based on work schedule.	 4.1 DO 128-13, series 2013 Amending Rule 1414 on Scaffolding of the OSHS) 4.2 Green Building Concept relative to Construction (3R, 5S) 4.3 Types and uses of communication medium 4.4 Standard work procedure in dismantling of scaffolds 4.5 Company rules and regulations 4.6 Relevant regulatory requirements in waste disposal 4.7 Emergency preparedness and response 4.8 Basic weight measurement 4.9 Types of lifting/lowering equipment 4.10 Types of binding equipment 4.11 Techniques in stacking and stocking 4.12 Factors affecting productivity 4.13 Productivity 4.14 Ways of improving productivity 	1.1 Following OSHS and other relevant regulatory requirements for dismantling scaffolds 1.2 Using communication medium 1.3 Using PPE 1.4 Applying productive methods and techniques in dismantling scaffolding 1.5 Applying trade Mathematics 1.6 Use and maintenance of tools 2.1 Implementing 3R and 5S

VARIABLE	RANGE
Purpose of scaffolding	May include:
	1.1 Working platform
	1.2 Access 1.1.1 False work
	1.1.2 Grandstands
	1.1.2 Grandstands 1.1.3 Stages
	1.1.4 Covered walkways
	1.1.5 General use of public
	1.1.6 Fall protection
2. Associated activities	May include:
2171000010100 0011711100	2.1 Checking of scaffold components
	2.2 Site clearing
	2.3 Coordination with other workers
	2.4 Lifting, segregation and stacking of scaffold on
	work site
	2.5 Structure support
3. Scaffold	May include:
	3.1 Traveling/Rolling/ Mobile
	3.2 Cantilever
	3.3 brackets,
	3.4 Ladder jack
	3.5 Trestle
	3.6 Outrigger
	3.7 Horse
4 Tools and Favinment	3.8 Bird cage/ stage
4. Tools and Equipment	May include: 4.1 Hand tools
	4.1 Hand tools 4.2 Lifting equipment
	4.3 Personal Protective Equipment (PPE)
	4.4 Power tools
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VARIABLE	RANGE
5. Communication and coordination	May include: 5.1 Verbal 5.2 Whistle 5.3 Two-way radio 5.4 Megaphone 5.5 Hand signal
6. Footings	May include: 6.1 Sole boards/ Mud sill 6.2 Base plate 6.3 Adjustable base jack 6.4 Concrete block
7. Lifting devices	May include: 7.1 Chain puller/ chain block 7.2 Pulley 7.3 Crane 7.4 Rope
8. Fall protection devices	May include: 8.1 Full body harness with double fixed lanyard 8.2 Full body harness with shock absorbing lanyard 8.3 Life line 8.4 Safety net
9. PPE (OSHC approved)	May include: 9.1 Head protection 9.2 Reflectorized vest 9.3 Eye protection 9.4 Ear protection 9.5 Foot protection 9.6 Hand protection with rubber pads 9.7 Respiratory protection
10. Checking tools and instruments	May include: 10.1 Spirit level 10.2 Torque wrench 10.3 Plumb bob 10.4 Tri square

Critical Aspects of Competency	Assessment requires evidence that the candidate: 1.1 Planned and prepared erection of scaffold 1.2 Installed scaffold 1.3 Checked and corrected scaffold 1.4 Dismantled scaffold and cleaned up 1.5 Observed safety measures applicable to worksite operation 1.6 Communicated effectively with others to ensure effective work operation 1.7 Observed and complied with the productivity requirements
Resource Implications Methods of Assessment	The following resources should be provided: 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
3. Methods of Assessment	Competency in this unit may be assessed through: 3.1 Demonstration/Observation with Oral Questioning
4. Context for Assessment	4.1 Competency may be assessed in actual workplace or at the designated TESDA Accredited Assessment Center

UNIT OF COMPETENCY : HANDLE, SEGREGATE AND STACK SCAFFOLD

COMPONENTS

UNIT CODE : CON711324

UNIT DESCRIPTOR : This unit covers the knowledge, skills and attitudes

required to prepare for demobilization handling and

stacking of scaffold components.

ELEMENT	PERFORMANCE CRITERIA Italicized terms are elaborated in the	REQUIRED KNOWLEDGE	REQUIRED SKILLS
Plan and prepare for operation	elaborated in the Range of Variables 1.1 Personal protective equipment (PPE) is used in accordance with Rule 1080 of Occupational Safety and Health Standards 1.2 Work instruction is reviewed, confirmed and clarified with appropriate Personnel 1.3 Occupational Safety and Health Standards (OSHS) requirements consistent to handle, segregate and stack scaffold components, tools and equipment are verified. 1.4 Tools and equipment are verified and selected in line with industry practice. 1.5 Scaffolding components, tools and equipment are checked for serviceability. 1.6 Safety practices are applied according to	1.1 DO 128-13, series 2013 Amending Rule 1414 on Scaffolding of the OSHS) 1.2 Green Building Concept relative to Construction (3R, 5S) 1.3 Basic English and Filipino language (written and verbal) 1.4 Types and uses of communication media 1.5 Company rules and regulations 1.6 Occupational Safety and Health Standards (OSHS) specifications 1.7 Basic weight measurement (English, metric) 1.8 Scaffold components,	1.1 Using communication medium 1.2 Applying trade Mathematics and factor of safety 1.3 Checking and segregating scaffold components 1.4 Implementing 5S
	OSHS and other applicable references 1.7 Work area is cleaned according to safety and environmental regulations (e.g. PD 1152 Section 6, 8 & 42)	tools and equipment's	

ELEMENT	PERFORMANCE CRITERIA Italicized terms are	REQUIRED KNOWLEDGE	REQUIRED SKILLS
	elaborated in the Range of Variables		
	1.8 Required output is completed as specified by the immediate supervisor based on work schedule.		
2. Demobilize scaffold equipment	2.1 Personal protective equipment (PPE) is used in accordance with Rule 1080 of Occupational Safety and Health Standards 2.2 Scaffolding components are moved to specified location following OSHS and other applicable references 2.3 Segregating and stacking procedure is performed for scaffold components based on industry practice 2.4 Scaffold components, tools and equipment are protected against physical, chemical, environmental damages 2.5 Scaffold components, tools and equipment are cleaned, checked, maintained, stored in a manner clear of access ways, ease of identification, retrieval and distribution 2.6 Occupational Safety and Health Standards (OSHS) requirements consistent to handle and use scaffolding tools and equipment are verified and complied with 2.7 Safety practices are applied according to OSHS and other applicable references	2.1 DO 128-13, series 2013 Amending Rule 1414 on Scaffolding of the OSHS) 2.2 Green Building Concept relative to Construction (3R, 5S) 2.3 Types and uses of communication medium 2.4 Company rules and regulations 2.5 Occupational Safety and Health Standards (OSHS) 2.6 Basic weight measurement 2.7 scaffold tools and equipment 2.8 Types of binding equipment 2.9 Techniques in stacking and stocking 2.10 Factors affecting productivity 2.11 Productivity work measurements 2.12 Ways of improving productivity	2.1 Following OSHS and other relevant regulatory requirements for handling scaffold component, tools and equipment 2.2 Using communication medium 2.3 Following industry practice for handling scaffolding 2.4 Applying trade Mathematics 2.5 Use and maintenance of tools 2.6 Using PPE 2.7 Implementing 3R and 5S

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ELEMENT	PERFORMANCE CRITERIA Italicized terms are elaborated in the Range of Variables	REQUIRED KNOWLEDGE	REQUIRED SKILLS
3. Perform	2.8 Work area is cleaned according to safety and environmental regulations (e.g. PD 1152 Section 6, 8 & 42) 2.9 Required output is completed as specified by the immediate supervisor based on work schedule. 3.1 Personal protective	3.1 DO 128-13,	3.1 Following
housekeeping	equipment (PPE) is used in accordance with Rule 1080 of Occupational Safety and Health Standards. 3.2 Excess/un-used materials are recovered and stockpiled according to company rules and procedures 3.3 Work area is cleaned according to safety and environmental regulations (e.g. PD 1152 Section 6, 8 & 42) 3.4 Tools and other materials are cleaned after use. 3.5 Required output is completed as specified by the immediate supervisor based on work schedule.	series 2013 Amending Rule 1414 on Scaffolding of the OSHS) 3.2 Green Building Concept relative to Construction (3R, 5S 3.3 Safe handling and standard specification of materials and tools 3.4 Safety signs and symbols 3.5 Adherence to work requirements	occupational health and safety/environmen tal management plans 3.2 Working safely 3.3 Organizing materials to be stored 3.4 Handling and use of materials and tools 3.5 Communicating effectively 3.6 Using PPE 3.7 Implementing 3R and 5S

VARIABLE	RANGE
Appropriate personnel	May include: 1.1 Supervisor 1.2 Qualified Person 1.3 Safety officer
Segregating and stacking procedure	May include: 2.1 Welded Frame type 2.2 Tube and coupler/fittings type

Critical Aspects of Competency	Assessment requires evidence that the candidate: 1.1 Planned and prepared for operation 1.2 Demobilized scaffold equipment 1.3 Performed house keeping
	1.4 Observed safety measures applicable to worksite Operation1.5 Communicated effectively with others to ensure offective work energies
	effective work operation 1.6 Observed and complied with the productivity requirements
2. Resource Implications	The following resources should be provided: 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
3. Methods of Assessment	Competency in this unit may be assessed through: 3.1 Demonstration/Observation with Oral Questioning
4. Context for Assessment	4.1 Competency may be assessed in actual workplace or at the designated TESDA Accredited Assessment Center

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 SCAFFOLDING WORKS NC II (SUPPORTED TYPE SCAFFOLD).

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: SCAFFOLDING WORKS NC II (SUPPORTED TYPE SCAFFOLD)

Nominal Training Duration: 37 Hours Basic Competencies

24 Hours Common Competencies

120 Hours Core Competencies

Total 181 Hours

Course Description:

This course is designed to provide the learner with knowledge, practical skills and attitude, applicable in performing work activities involve in erecting and dismantling scaffolding, and safely handling scaffold components tools and equipment. This includes classroom learning activities and practical work in actual work site or simulation area.

Upon completion of the course, the learners are expected to demonstrate the abovementioned competencies to be employed. To obtain this, all units prescribed for this qualification must be achieved.

BASIC COMPETENCIES (37 HOURS)

Unit of Competency	Learning Outcomes	Learning Activities	Methodology	Assessment Approach	Nominal Duration
Participate in workplace communication	1.1. Obtain and convey workplace information	 Describe Organizational policies Read: Effective communication Written communication Communication procedures and systems Identify: Different modes of communication Medium of communication Flow of communication Available technology relevant to the enterprise and the individual's work responsibilities Prepare different Types of question Gather different sources of information Apply storage system in establishing workplace information Demonstrate Telephone courtesy 	 Group discussion Lecture Demonstration 	 Oral evaluation Written examination Observation 	2 Hours
	1.2. Perform duties following workplace instructions	 Read: Written notices and instructions Workplace interactions and procedures Read instructions on work related forms/documents Perform workplace duties scenario following workplace instructions 	 Group discussion Lecture Demonstration	 Oral evaluation Written examination Observation 	2 Hours

Promulgated (10/29/2018)

Unit of Competency	Learning Outcomes	Learning Activities	Methodology	Assessment Approach	Nominal Duration
O. Worlding a top	1.3. Complete relevant work related documents	 Describe Communication procedures and systems Read: Meeting protocols Nature of workplace meetings Workplace interactions Barriers of communication Read instructions on work related forms/documents Practice: Estimate, calculate and record routine workplace measures Basic mathematical processes of addition, subtraction, division and multiplication Demonstrate office activities in: workplace meetings and discussions scenario Perform workplace duties scenario following simple written notices Follow simple spoken language Identify the different Non-verbal communication Demonstrate ability to relate to people of social range in the workplace Gather and provide information in response to workplace requirements Complete work related documents 	 Group discussion Lecture Demonstration Role play 	 Oral evaluation Written examination Observation 	2 Hours
2. Work in a team environment	2.1 Describe team role and scope	 Discussion on team roles and scope Participate in the discussion: Definition of Team Difference between team and group Objectives and goals of team Locate needed information from the different sources of information 	 Lecture/ Discussion Group Work Individual Work Role Play 	Role PlayCase StudyWritten Test	1 Hour

Unit of Competency	Learning Outcomes	Learning Activities	Methodology	Assessment Approach	Nominal Duration
	2.2 Identify one's role and responsibility within team	 Role play : individual role and responsibility Role Play Understanding Individual differences Discussion on gender sensitivity 	Role PlayLecture/ Discussion	Role PlayWritten Test	1 Hour
	2.3 Work as a team member	 Participate in group planning activities Role play: Communication protocols Participate in the discussion of standard work procedures and practices 	 Group work Role Play Lecture/ Discussion	Role PlayWritten Test	1 Hour
3. Solve/address routine problems	3.1 Identify routine problems	 Review of the current industry hardware and software products and services Identify correctly the industry maintenance, service and helpdesk practices, processes and procedures Make use of the industry standard diagnostic tools Share best practices in determining basic malfunctions and resolutions to general problems in the workplace Analyze routine/procedural problems 	 Group discussion Lecture Demonstration Role playing 	 Case Formulation Life Narrative Inquiry (Interview) Standardized test 	1 Hour
	3.2 Look for solutions to routine problems	 Review of the current industry hardware and software products and services Identify correctly the industry maintenance, service and helpdesk practices, processes and procedures Make use of the industry standard diagnostic tools Share best practices in determining basic malfunctions and resolutions to general problems in the workplace Formulate possible solutions to problems and document procedures for reporting 	 Group discussion Lecture Demonstration Role playing 	 Case Formulation Life Narrative Inquiry (Interview) Standardized test 	1 Hour

Unit of Competency	Learning Outcomes	Learning Activities	Methodology	Assessment Approach	Nominal Duration
	3.3 Recommend solutions to problems	Discuss standard operating procedures and documentation processes	 Group discussion Lecture Demonstration Role playing	 Case Formulation Life Narrative Inquiry (Interview) Standardized test 	1 Hour
4. Develop Career and Life Decisions	4.1 Manage one's emotion	 Demonstrate self-management strategies that assist in regulating behavior and achieving personal and learning goals Explain enablers and barriers in achieving personal and career goals Identify techniques in handling negative emotions and unpleasant situation in the workplace such as frustration, anger, worry, anxiety, etc. Manage properly one's emotions and recognize situations that cannot be changed and accept them and remain professional Recall instances that demonstrate self-discipline, working independently and showing initiative to achieve personal and career goals Share experiences that show confidence, and resilience in the face of setbacks and frustrations and other negative emotions and unpleasant situations in the workplace 	 Discussion Interactive Lecture Brainstorming Demonstration Role-playing 	Demonstration or simulation with oral questioning Case problems involving workplace diversity issues	1 Hour
	4.2 Develop reflective practice	 Enumerate strategies to improve one's attitude in the workplace Explain Gibbs' Reflective Cycle/Model (Description, Feelings, Evaluation, Analysis, Conclusion, and Action plan) Use basic SWOT analysis as self-assessment strategy Develop reflective practice through 	 Small Group Discussion Interactive Lecture Brainstorming Demonstration 5 Role-playing 	 Demonstration or simulation with oral questioning Case problems involving workplace diversity issues 	1 Hour

Unit of Competency	Learning Outcomes	Learning Activities	Methodology	Assessment Approach	Nominal Duration
		realization of limitations, likes/ dislikes; through showing of self-confidence • Demonstrate self-acceptance and being able to accept challenges			
	4.3 Boost self- confidence and develop self- regulation	 Describe the components of self-regulation based on Self-Regulation Theory (SRT) Explain personality development concepts Cite self-help concepts (e. g., 7 Habits by Stephen Covey, transactional analysis, psycho-spiritual concepts) Perform effective communication skills – reading, writing, conversing skills Show affective skills – flexibility, adaptability, etc. Determine strengths and weaknesses 	 Small Group Discussion Interactive Lecture Brainstorming Demonstration Role-playing 	Demonstration or simulation with oral questioning Case problems involving workplace diversity issues	1 Hour
5. Contribute to workplace innovation	5.1 Identify opportunities to do things better	 Identify different roles of individuals in contributing to doing things better in the workplace Appreciate positive impacts and challenges in innovation Show mastery of the different types of changes and levels of participation in the workplace Discuss 7 habits of highly effective people 	Interactive Lecture Appreciative Inquiry Demonstration Group work	 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

Unit of Competency	Learning Outcomes	Learning Activities	Methodology	Assessment Approach	Nominal Duration
	5.2 Discuss and develop ideas with others	 Identify different roles of individuals in contributing to doing things better in the workplace Appreciate positive impacts and challenges in innovation Show mastery of the different types of changes and levels of participation in the workplace Discuss 7 habits of highly effective people Communicate ideas through small group discussions and meetings 	 Interactive Lecture Appreciative Inquiry Demonstration Group work 	 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 Integrate ideas for change in the workplace	 Identify different roles of individuals in contributing to doing things better in the workplace Appreciate positive impacts and challenges in innovation Show mastery of the different types of changes and levels of participation in the workplace Discuss 7 habits of highly effective people Communicate ideas through small group discussions and meetings Demonstrate basic skills in data analysis 	 Interactive Lecture Appreciative Inquiry Demonstration Group work 	 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 	1 Hour

Unit of Competency	Learning Outcomes	Learning Activities	Methodology	Assessment Approach	Nominal Duration
				character strengths and virtues applied	
6. Present relevant information	6.1 Gather data/ information	 Lecture and discussion on: Organisational protocols Confidentiality and accuracy Business mathematics and statistics Legislation, policy and procedures relating to the conduct of evaluations Reviewing data/ information 	 Group discussion Lecture Demonstration Role Play	Oral evaluationWritten TestObservationPresentation	2 Hours
	6.2 Assess gathered data/ information	 Lecture and discussion on: Data analysis techniques/ procedures Organisational values, ethics and codes of conduct Trends and anomalies Computing business mathematics and statistics Application of data analysis techniques 	 Group discussion Lecture Demonstration Role Play Practical exercises 	Oral evaluationWritten TestObservationPresentation	3 Hours
	6.3 Record and present information	 Lecture and discussion on: Reporting requirements to a range of audiences Recommendations for possible improvements Analysis and comparison of interim and final reports' outcomes Reporting of data findings 	 Group discussion Lecture Demonstration Role Play Practical exercises	Oral evaluationWritten TestObservationPresentation	3 Hours
7. Practice Occupational Safety And Health Policies And Procedures	7.1 Identify OSH compliance requirements	 Discussion regarding: Hierarchy of Controls Hazard Prevention and Controls Work Standards and Procedures Personal Protective Equipment 	LectureGroup Discussion	Written ExamDemonstrationObservationInterviews /Questioning	1 Hour

Unit of Competency	Learning Outcomes	Learning Activities	Methodology	Assessment Approach	Nominal Duration
	7.2 Prepare OSH requirements for compliance	 Identification of required safety materials, tools and equipment Handling of safety control resources 	LectureGroup Discussion	Written ExamDemonstrationObservationInterviews /Questioning	1 Hour
	7.3 Perform tasks in accordance with relevant OSH policies and procedures	 Discussion of General OSH Standards and Principles Performing industry related work activities in accordance with OSH Standards 	LectureGroup Discussion	Written ExamDemonstrationObservationInterviews /Questioning	2 Hours
8. Exercise Efficient and Effective Sustainable Practices in the Workplace	8.1 Identify the efficiency and effectiveness of resource utilization	 Discussion on the process how Environmental Policies coherence is achieved Discussion on Necessary Skills in response to changing environmental policies needs Waste Skills Energy Skills Water Skills Building Skills Transport Skills Material Skills 	 Lecture Group Discussion Simulation Demonstration 	 Written Exam Demonstration Observation Interviews / Questioning 	1 Hour
	8.2 Determine causes of inefficiency of resource utilization	 Discussion of Environmental Protection and Resource Efficiency Targets Analysis on the Relevant Work Procedure 	Lecture Group Discussion Demonstration	Written ExamDemonstrationObservationInterviews /Questioning	1 Hour

Unit of Competency	Learning Outcomes	Learning Activities	Methodology	Assessment Approach	Nominal Duration
	8.3 Convey inefficient and ineffective environmental practices	 Identification of (re)training needs and usage of environment friendly methods and technologies Identification of environmental corrective actions Practicing Environment Awareness 	LectureGroup DiscussionRole PlayDemonstration	Written ExamDemonstrationObservationInterviews /Questioning	1 Hour
9. Practice Entrepreneurial Skills in the Workplace	9.1 Apply entrepreneurial workplace best practices	 Case studies on Best entrepreneurial practices Discussion on Quality procedures and practices Case studies on Cost consciousness in resource utilization 	Case StudyLecture/Discussion	Case StudyWritten TestInterview	1 Hour
	9.2 Communicate entrepreneurial workplace best practices	Discussion on communicating entrepreneurial workplace best practices	Lecture/Discussion	Written TestInterview	1 Hour
	9.3 Implement cost- effective operations	Case studies on Preservation, optimization and judicious use of workplace resources	Case StudyLecture/Discussion	Case StudyWritten TestInterview	2 Hours

COMMON COMPETENCIES (24 HOURS)

Unit of Competency	Learning Outcomes	Learning Activities	Methodologies	Assessment Methods	Nominal Duration
Prepare construction materials and tools	1. 1 Identify materials	 Identifying tools according to the job requirements Identifying materials and accessories according to the job requirements 	Lecture- demonstrationGroup discussionPowerPoint presentation	 Demonstration with oral questioning Written examination Portfolio (credentials) 	2 Hours
	1.2 Requisition materials	Preparing material take-offRequesting materials and tools	SimulationDiscussion	Demonstration with oral questioning	
	1.3 Receive and inspect materials	 Checking and inspecting materials and tools Storing/ stacking of tool and materials 	Practical ExerciseDemonstration	 Written / Oral Test Demonstration with oral questioning 	2 Hours
2. Observe procedures, specifications and manuals of instructions	2.1 Identify and access specification/ manuals	Identifying manuals and specificationsAccessing information and data	Lecture- demonstration	Demonstration with oral questioningWritten examination	2 Hours
	2.2 Interpret manuals	 Interpreting symbols and specifications Accessing information and data Applying conversion of units of measurements 	Actual demonstrationGroup discussion	 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	Applying information from manuals	DemonstrationGroup discussion	Demonstration with oral questioning	2 Hours
	2.4 Store Manual	Storing and maintaining manuals	DemonstrationGroup discussion	 Demonstration with oral questioning Practical and oral exam 	2 Hours
Interpret technical drawings and plans	3.1 Analyze signs, symbols and data	Identifying signs, symbols and dataClassifying signs, symbols and data	DiscussionDemonstration	Demonstration with oral questioningWritten examination	2 Hours
	3.2 Interpret drawings and plans	 Identifying tools, supplies, materials and equipment Recognizing components, assemblies or objects Identifying dimensions 	DiscussionDemonstration	Demonstration with oral questioningWritten examination	2 Hours
4.Perform mensurations and calculations	4.1 Select measuring instruments	Selecting measuring instruments	Lecture- demonstrationGroup discussion	Demonstration with oral questioning	2 Hours
	4.2 Carry out measurements and calculations	 Interpreting formulas for volume, areas, perimeters of plane and geometric figures Handling of measuring instruments 	 Group discussion Practical Lab Demonstration	 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	 Maintaining tools and equipment Handling of tools and equipment Identifying tools and equipment defects 	Lecture- demonstration Group discussion	Demonstration with oral questioning	1 Hour
	5.2 Perform basic preventive maintenance	Handling of tools and equipment Performing preventive maintenance	SimulationGroup discussionPractical LabDemonstration	 Written examination Third party report Demonstration with oral questioning 	2 Hours
	5.3 Store tools and equipment	 Storing tools and equipment Handling of tools and equipment 	DemonstrationGroup discussionPractical Lab	Practical exam Written examination Demonstration with oral questioning	1 Hour

CORE COMPETENCIES (120 HOURS)

Unit of Competency	Learning Outcomes	Learning Activities	Methodologies	Assessment Methods	Nominal Duration
Erect and dismantle supported type scaffold	1.1 Plan and prepare for operation	 Enumerate the different site rules and regulations in erecting scaffold Discuss the importance of work instruction and associated activities Describe scaffold components, tools and equipment are identified, checked and segregated Understand scaffold type and its capacity Identifying and reporting obstructions and hazards in the job site Prepare scaffold sketches Understanding the factors affecting productivity Practicing 3R and 5S 	 Lecture / discussion Demonstration 	 Observation of practical skills Written test Oral questioning 	8 Hours

Unit of Competency	Learning Outcomes	Learning Activities	Methodologies	Assessment Methods	Nominal Duration
	1.2 Install scaffold	 Demonstrate installation of barricades and signage's Understand the importance of site and foundation preparation Demonstrate erection procedures Demonstrate proper installation of fall protection devices and use of PPEs Measuring work productivity Finding ways of improving productivity Practicing 3R and 5S 			56 Hours
	1.3 Check and correct erected scaffold	 Demonstrate checking using tools and instruments Measuring work productivity Finding ways of improving productivity Practicing 3R and 5S 			6 Hours

Unit of Competency	Learning Outcomes	Learning Activities	Methodologies	Assessment Methods	Nominal Duration
	1.4 Dismantle scaffold	 Demonstrate installation of barricades and signage's Demonstrate the use of fall protection devices and PPEs Demonstrate dismantling procedure and stack piling Measuring work productivity Finding ways of improving productivity Practicing 3R and 5S 			24 Hours
2. Handle, segregate and stack scaffold components	2.1 Plan and prepare for operation	 Discuss the importance of work instruction and associated activities Describe how scaffold components, tools and equipment are identified, checked and segregated. Understanding the factors affecting productivity Practicing 3R and 5S 	Lecture / discussionDemonstration	 Observation of practical skills Written test Oral questioning 	8 Hour
	2.2 Demobilize scaffold equipment	 Demonstrate manual handling, segregating and stocking of scaffold components, tools and equipment Measuring work productivity Finding ways of improving productivity Practicing 3R and 5S 			16 Hours
	2.3 Perform housekeeping	Demonstrate housekeeping			2 Hours

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 performance of all specified competencies.
- 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 craftsperson wherein the agreement may be written or oral and the master craftsperson 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 craftsperson.
- 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).

3.3 TRAINEE ENTRY REQUIREMENTS

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

- Can communicate both orally and in writing
- Physically fit
- Can perform basic mathematical computation and mensuration

3.4 LIST OF TOOLS, EQUIPMENT AND MATERIALS

List of tools, equipment and materials for the training of a maximum of 25 trainees for **Scaffolding Works NC II** (Supported Type Scaffold) are as follows:

A. (Full Qualification)

TOOLS				
QTY.	ITEM			
25 pcs.	Claw Hammer			
25 pcs.	Combination wrench/ Spanner / Ratchet (17mm-21mm)			
25 pcs.	Pull push rule (5m)			
25 pcs.	Magnetic Level bar (24 inches) /			
5 pcs.	Plumb bob			
5 pcs.	Steel square (12 inches)			
25 pcs.	Tool holster/ belt			
1 pc.	Pipe cutter			

	EQUIPMENT				
QTY.	ITEM				
25 pcs.	Hard hat with chin strap and crash guard				
25 pairs Safety shoes (steel toe-impact and compression resistant-ANSI I/C30 or equivalent)					
25 pcs.	Full body harness with double lanyard and lifeline				
25 pairs	Gloves cotton with rubber padding) ANSI level 2 or higher, cut resistant or equivalent				
1 roll	½" dia. Nylon rope or ¾" dia. manila rope with pulley and hook				
25 pcs.	Safety clear glasses (ANSI 87 or equivalent)				
25 pcs.	Dust mask (ANSI N95 or equivalent)				
25 pairs	Ear plugs, Noise Reduction Rating 25 Decibels				

	MATERIALS						
2	Bays 3 Layers Frame Type	2 Bays 3 Layers Tubular Type Scaffolds					
QTY.	ITEM	QTY.	ITEM				
3 pcs.	Wooden Planks / Sole Boards 50 mm. T x 150 mm. W x 1500 mm. L	3 pcs.	Wooden Planks / Sole Boards 50 mm. T x 150 mm. W x 1500 mm. L				
6 pcs.	Adjustable Jack Base 700 e mm. L	6 pcs.	Adjustable Jack Base 700 e mm. L				
9 pcs.	Welded Frames H Type 1.80 m H x 1.20 m W	24 pcs.	Steel Pipes 48mm dia. sch40 X 2.50 mtrs.				
12 pcs.	Cross Braces 2.20 m L	15 pcs.	Steel Pipes 48mm dia. sch40 X 4.50 mtrs.				
12 pcs.	Joint Pins with lock	20 pcs.	Steel Pipes 48mm dia. sch40 X 6.0 mtrs.				
8 pcs.	Steel Planks / Catwalk	20 pcs.	Steel Planks / Catwalk				
3 sets	Steel Access Stairs, 2m x 1.8m	150 pcs.	Swivel Clamps 2" dia. x 500 lbs. Cap.				
24 pcs.	Steel Pipes 48mm dia. sch40 x 6.0 mtrs. L Gauge 40	10 pcs.	Steel Pipes 1.90 dia. X 1.20 mtrs.				
4 pcs.	Steel Pipes 48mm dia. sch40 x 4.40 mtrs. L	3 sets	Steel Access Stairs, 2m x 1.8m				
4 pcs.	Steel Pipes 48mm dia. sch40 x 1.20 mtrs. L	2 pcs	Wooden Toe Boards 25 mm. T x 150 mm. W x 5.0 mtrs. L				
2 pcs	Wooden Toe Boards 25 mm. T x 150 mm. W x 4.40 mtrs. L	2 pcs.	Wooden Toe Boards 25 mm. T x 150 mm. W x 2.50 mtrs. L				
2 pcs.	Wooden Toe Boards 25 mm. T x 150 mm. W x 1.50 mtrs. L	220 pcs.	Double Coupler or Fixed Coupler				
60 pcs.	Swivel Clamps 2" dia. x 500 lbs. Cap.						

3.5 TRAINING FACILITIES

The training facility is based on the size of class of 25 students / trainees.

Space Requirement	Size in Meters	Area in Sq. Meters	Total Area in Sq. Meters
Contextual Learning	5 x 8	40	40
Laboratory / Lecture Room	0 % 0	40	40
Learning Resource	4 x 5	20	20
Center	4 7 0	20	20
Tool Room/Storage	2 x 5	10	10
Wash room	2 x 5	10	10
Circulation area	10 x 6	60	60
Training ground	10 x 20	200	200
TOTA	340		

MATERIALS
Tabular type scaffolds
Double Couple or Fixed Coupler – 220pcs.

3.6 TRAINERS' QUALIFICATION

- Holder of National TVET Trainer Certificate Level I (NTTC Level I) in Scaffolding Works NC II (Supported Type Scaffold)
- Must have completed the 40-Hour Construction Occupational Safety and Health (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 be computer-literate
- Must be physically fit
- Must have at least two (2) years industry experience in Scaffolding works and one
 (1) year teaching experience in Scaffolding works

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 ARRANGEMENT

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 an employable unit(s) of competency in partial fulfillment of the requirements of the national qualification.

4.1 NATIONAL ASSESSMENTAND 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 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:
- 4.1.4 Existing National Certificate in Scaffold Erection NC II will be renewed and converted to the amended Training Regulations for Scaffolding Works NC II (Supported Type Scaffold).
- 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.

ANNEX A

BASIC COMPETENCIES

COMPETENCY MAP - CONSTRUCTION SECTOR (Civil Works) SCAFFOLDING WORKS NC II (SUPPORTED TYPE SCAFFOLD)

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)

Utilize specialize specialized communicati on 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 entrepreneu rial skills
Manage and sustain effective communicati on 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

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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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. FOOTING

Refers to the widened base or substructure forming the foundation for a wall or a column

2. SCAFFOLD

A temporary provided structure which provides access to, or from which persons work, for which is used to support materials, plant or equipment. Scaffold is frequently adapted for shoring and concrete works.

3. PERSONAL PROTECTIVE EQUIPMENT (PPE)

It is commonly referred to as PPE, is equipment worn to minimize exposure to hazards that cause serious workplace injuries and illnesses. It can include items such as safety helmets, gloves, eye protection, high-visibility clothing, safety footwear and safety harnesses.

4. LIFTING DEVICES

It is any work equipment for lifting and lowering loads, and includes any accessories used in doing so (such as attachments to support, fix or anchor the equipment).

5. FALL PROTECTION DEVICES

It is planned equipment used to protect a worker from death or potential injury in the event they would lose their balance while performing a task at height.

6. 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.

7. 5S

The five in a 5S workplace organizational and housekeeping methodology refers to five steps – sort, set in order, shine, standardize and sustain

8. 3R

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 repurposing 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



TRAINING REGULATIONS (TR) DOCUMENT REVISION HISTORY

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