

Republic of the Philippines
TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY
 East Service Road, South Superhighway, Taguig City

92nd TESDA BOARD MEETING
 16 December 2015, Wednesday 2:00 p.m.
 7/F TESDA Board Room, Office of the Chair
 TESDA Complex, South Superhighway, Taguig City

Resolution No. 2015-19
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**APPROVING THE AMENDMENTS TO THE TRAINING REGULATIONS FOR
 LAND-BASED TRANSPORT REFRIGERATION SERVICING NC II**

WHEREAS, TESDA Board Resolution No. 2005-04 was issued approving and promulgating the Training Regulations for Transport RAC Servicing NC II last 18 March 2005 during the 45th TESDA Board Meeting;

WHEREAS, it is the policy of TESDA to review after three (3) years any Training Regulations (TRs) promulgated by the TESDA Board;

WHEREAS, the Philippine Society of Ventilating, Air-conditioning and Refrigerating Engineers, Inc. (PSVARE) and the Refrigeration and Air-Conditioning Technicians for Development Association of the Philippines, Inc. (RACTAP) Expert Panels, with the assistance of the Qualifications and Standards Office (QSO) of TESDA, have recommended the amendments to the existing Training Regulations for Transport RAC Servicing NC II;

WHEREAS, during the 81st and 82nd Standards-Setting and Systems Development (SSSD) Committee - TESDA Board-TESDA Secretariat Consultation Meeting held on 11 November 2015 and 16 November 2015, respectively, the Committee favorably endorsed the following amendments to the above-mentioned Training Regulations for Land-based Transport Refrigeration Servicing NC II;

Existing Promulgated Training Regulations (Board Resolution No. 2005-04)	Amendments
Qualification Title	
Transport RAC Servicing NC II	Land-based Transport Refrigeration Servicing NC II
Job Title	
<ul style="list-style-type: none"> • Transport Air-conditioning and Refrigeration Technician 	<ul style="list-style-type: none"> • Land-based Transport Refrigeration Mechanic/Serviceman
Section 1 - Definition of the Qualification	
The TRANSPORT RAC SERVICING NC II Qualification consists of competencies that a person must achieve that will enable him/her to install, service, maintain, troubleshoot and repair air-conditioning and refrigeration units in transport sector.	The Land-Based Transport Refrigeration Servicing NC II Qualification consists of competencies that a person must achieve to enable him/her to service, maintain, troubleshoot and repair as well as to start-up, test and commission land-based transport refrigeration systems/units.

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Existing Promulgated Training Regulations (Board Resolution No. 2005-04)	Amendments
Section 1- Units of Competency	
<u>Basic Competencies</u> (Prescribed competencies for NC II)	<u>Basic Competencies</u> (No amendments on prescribed competencies for NC II)
<u>Common Competencies</u> (Prescribed competencies for NC II)	<u>Common Competencies</u> (No amendments on prescribed competencies for NC II)
<u>Core Competencies</u> <ol style="list-style-type: none"> 1. Install transport air-conditioning and refrigeration units 2. Service and maintain transport air-conditioning and refrigeration units 3. Troubleshoot transport air-conditioning and refrigeration systems 4. Recover and recycle refrigerant in transport air-conditioning and refrigeration systems 5. Repair and retrofit transport air-conditioning and refrigeration and its accessories 6. Perform testing and commissioning for transport air-conditioning and refrigeration 	<u>Core Competencies</u> <ol style="list-style-type: none"> 1. Service and maintain transport refrigeration units 2. Troubleshoot and repair transport refrigeration systems 3. Perform start-up, test and commissioning of transport refrigeration units
Section 2 - Competency Standards Updates/Changes were made consistent with the proposed amendments on Basic, Common and Core Competencies.	

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Section 3 - Training Standards	
3.1 Curriculum Design	
Nominal Training Duration	
18 hrs – Basic Competencies 34 hrs – Common Competencies 160 hrs – Core Competencies <hr/> 212 hrs - Total	18 hrs – Basic Competencies 34 hrs – Common Competencies 488 hrs – Core Competencies <hr/> 540 hrs - Total
3.2 Training Delivery	
<p>The delivery of training should adhere to the design of the curriculum. Delivery should be guided by the 10 basic principles of the competency-based TVET.</p> <ul style="list-style-type: none"> • The training is based on curriculum developed from the competency standards; • Learning is modular in its structure; • Training delivery is individualized and self-paced; • Training is based on work that must be performed; • Training materials are directly related to the competency standards and the curriculum modules; • Assessment is based in the collection of evidence of the performance of work to the industry required standard; • Training is based both on and off-the-job components; • Allows for recognition of prior learning (RPL) or current competencies; 	<p>1. The delivery of training shall adhere to the design of the curriculum. Delivery shall be guided by the principles of competency-based TVET.</p> <ul style="list-style-type: none"> • 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) • Training delivery is learner-centered and should accommodate individualized and self-paced learning strategies; • Training can be done on an actual workplace setting, simulation of a workplace and/or through adoption of modern technology. • Assessment is based in the collection of evidence of the performance of work to the industry required standards; • Assessment of competency takes the trainee's knowledge and attitude into

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Existing Promulgated Training Regulations (Board Resolution No. 2005-04)	Amendments
<ul style="list-style-type: none"> • Training allows for multiple entry and exit; and • Approved training programs are nationally accredited. <p>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 may be adopted when designing training programs:</p> <ul style="list-style-type: none"> • The dualized mode of training delivery is preferred and recommended. Thus programs would contain both in-school and in-industry training or fieldwork components. Details can be referred to the Dual Training System (DTS) Implementing Rules and Regulations. • Modular/self-paced learning is a competency-based training modality wherein the trainee is allowed to progress at his own pace. The trainer only facilitates the training delivery. • Peer teaching/mentoring is a training modality wherein fast learners are given the opportunity to assist the slow learners. • Supervised industry training or on-the-job training is an approach in training designed to enhance the knowledge and skills of the trainee through actual experience in the workplace to acquire a specific competencies prescribed in the training regulations. 	<ul style="list-style-type: none"> account but requires evidence of actual performance of the competency as the primary source of evidence. • Training program allows for recognition of prior learning (RPL) or current competencies; and • Training completion is based on satisfactory performance of all specified competencies. <p>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:</p> <p>2.1. Institution- Based:</p> <ul style="list-style-type: none"> • 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; • The traditional classroom-based or in-center instruction may be enhanced through use of learner-centered methods as well as laboratory or field-work components.

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Existing Promulgated Training Regulations (Board Resolution No. 2005-04)	Amendments
<ul style="list-style-type: none"> Distance learning is a formal education process in which majority of the instruction occurs when the students and instructors are not in the same place. Distance learning may employ correspondence study, or audio, video or computer technologies. 	<p>2.2. Enterprise-Based:</p> <ul style="list-style-type: none"> Formal Apprenticeship – Training within employment involving a contract between an apprentice and an enterprise on an approved apprenticeable occupation. 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.
<p>3.3 Trainee Entry Requirements</p>	
<p>This section specifies the qualifications of trainees and educational experience. Other requirements like health and physical requirements are also stated. Passing entry written examinations may also be indicated if necessary:</p> <ul style="list-style-type: none"> High School graduate or equivalent Can perform basic mathematical computation Good moral character Ability to communicate either oral and written Physically and mentally fit 	<p>The trainees who wish to enter the course should possess the following requirements:</p> <ul style="list-style-type: none"> Must have completed at least 10 yrs. basic education or an ALS certificate of achievement with grade 10 equivalent holder Can communicate both oral and written Can perform basic mathematical computation <p>This list does not include specific institutional requirements such as educational attainment, appropriate work experience, and others that may be required of the trainees by the school or training center delivering the TVET program.</p>

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1.4 List of Tools, Equipment and Materials

Recommended list of tools, equipment and materials for the training of 25 trainees for Land-Based Transport Refrigeration Servicing NC II:

TOOLS		TOOLS	
QTY.	DESCRIPTION	QTY.	DESCRIPTION
6 sets	System Analyzer	6 sets	System Analyzer
6 pcs.	Adjustable wrench, 12"	6 sets	Hacksaw
6 pcs.	Adjustable wrench, 8"	6 pcs	Rubber mallet
3 sets	Open end wrench	3 sets	Open end wrench
3 sets	Box wrench	3 sets	Box wrench
3 sets	Allen wrench	3 sets	Allen wrench
5 sets	Hacksaw	6 pcs	Adjustable wrench, 12"
5 pcs	Rubber mallet	6 pcs	Adjustable wrench, 8"
5 pcs.	Ballpen hammer	5 pcs	Ballpen hammer
10 pcs.	Files, assorted	10 pcs	Files, assorted
3 sets	Socket wrench	3 sets	Socket wrench
3 sets	Tinner's snip	3 sets	Tinner's snip
3 sets	Screw drivers	3 sets	Screw drivers
5 pcs.	Long nose plier	5 pcs.	Long nose plier
5 pcs	Side Cutter	5 pcs	Side Cutter
5 pcs.	Crimping tools	5 pcs	Crimping tools
5 pcs.	Vise grip	5 pcs	Vise grip
1 set	Hole saw	1 set	Hole saw
2 sets	Oil pump	2 sets	Oil pump
5 sets	Flaring tools	5 sets	Flaring tools
5 sets	Swaging tool	5 sets	Swaging tool
5 pcs.	Tube cutter	5 pcs	Tube cutter
5 pcs.	Tube bender, ¼"	5 pcs	Tube bender, lever type, ¼", 5/16, 3/8, ½
5 pcs.	Tube bender	5 sets	Tube bender, spring type
5 pcs.	Refrigeration ratchet	5 pcs.	Refrigeration ratchet
3 sets	Quick connector for R134a	5 pcs	Push pull rule
5 pcs.	Push pull rule	5 pcs	Side Cutter
5 pcs.	Steel rule	5 pcs	Steel rule
5 sets	Soldering iron		
2 units	Portable drill		
1 unit	Portable grinder		

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Existing Promulgated Training Regulations (Board Resolution No. 2005-03)		Amendments	
TOOLS		TOOLS	
QTY.	ITEM	QTY.	DESCRIPTION
1 set	Puncher	1 set	Puncher
5 sets	Multitester	5 sets	Soldering iron
5 sets	Thermometer, digital	2 units	Portable drill
10 pcs.	Service cylinder, 2.5 kg	1 unit	Portable grinder
3 pcs.	Refractometer	5 sets	Multi-tester
3 units	Vacuum gauge	5 sets	Thermometer, digital
EQUIPMENT		EQUIPMENT	
QTY.	ITEM	QTY.	QTY.
2 units	Recovery/recycling machine	2 units	Recovery/recycling machine with recovery cylinder
3 units	Vacuum pump	3 units	Vacuum pump
1 unit	Pressure washer	2 sets	Nitrogen cylinder w/ regulator
1 unit	Refrigerant identifier	1 unit	Refrigerant identifier
2 sets	Oxyacetylene unit	2 units	Oxyacetylene unit
2 sets	Nitrogen cylinder w/ regulator	2 sets	Pressure washer
2 sets	Charging cylinder, R134a and R12	4 sets	Charging cylinder, R134a and R404A
2 units	Digital weighing scale	5 units	Compressor, R134a/R404A
1 unit	Portable welding machine	1 unit	Portable welding machine
1 unit	Air compressor	1 unit	Air compressor
5 units	Auxillary fan	5 units	Evaporator assembly
5 units	Evaporator, hang type	5 units	Condenser assembly
5 units	Condenser coil	4 units	Digital weighing scale
5 units	Compressor	2 units	Transport refrigeration Trainer (can be trailer van simulator)
2 units	Transport Refrigeration Trainer		
2 units	Transport air conditioning Trainer		
MATERIALS		MATERIALS	
QTY.	ITEM	QTY.	ITEM
3 pcs	Liquid receiver/drier, R12	1 pc	Refrigerant tank/ cylinder R 404A
2 pcs	Liquid receiver/drier, R134a	5 pcs	Expansion valve
1 pc	Refrigerant tank, R12	1 pc	Refrigerant tank/ cylinder R 134a
1 pc	Refrigerant tank, R134a		
5 pcs	Expansion valve		

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Existing Promulgated Training Regulations (Board Resolution No. 2005-04)		Amendments	
MATERIALS		MATERIALS	
QTY.	ITEM	QTY.	DESCRIPTION
1 gal	Mineral oil, 3 GS, 5 GS	1 gal	Mineral oil, 3GS, 5GS
1 gal	Synthetic oil	1 gal	Synthetic oil
1 roll	Copper tube. 3/8"	1 roll	Copper tube, 3/8"
1	Flexible pipe, discharge line	1 roll	Flexible pipe, discharge line
1	Flexible pipe, suction line	1 roll	Flexible pipe, suction line
10	Fittings, discharge line	10 pcs	Fittings, discharge line
10	Fittings, suction line	10 pcs	Fittings, suction line
1 roll	Automotive wire # 12	1 roll	Automotive wire #12
1roll	Automotive wire #14	1roll	Automotive wire #14
5 rolls	Electrical tape	5 rolls	Electrical tape
100 pcs	Assorted types of clamps	100 pcs	Assorted types of clamps
100 pcs	Assorted types of flare nuts	10 L	Universal flushing agent
100 pcs	Assorted types of nuts and bolts	2 9-kg. cyl	Alternative refrigerant, HC
100 pcs	Terminal clips	100 pcs	Assorted types of flare nuts
100 pcs	Assorted types of O ring	100 pcs	Assorted types of bolts and nuts
50 pcs	Silver rod	100 pcs	Terminal clips
50 pcs	Aluminum rod	50 pcs	Silver rod
5jar	Aluminum flux	50 pcs	Aluminum rod
3 pcs	Thermostat ,auto aircon	5 cans	Aluminum flux
3 pcs	Thermostat, electronic w/ thermistor	3 pcs	Thermostat, electronic w/ thermistor
2 cylv	Nitrogen gas	3 pcs	Thermostat, for transport refrigeration
3 sets	Idling stabilizer	2 cylv	Nitrogen gas
5 sets	Overhauling gasket, abacus	5 boxes	Rags
5 sets	Overhauling gasket, Nippon denso	5 boxes	Soap
5 pcs	ignition lighter	10 pcs	Sand paper
5 boxes	Rags	5 pcs	Sealant
5 boxes	Soap	5 pcs	Pressure switch
10 pcs	Sand paper	5 pcs	Control resistor
5 pcs	Sealant	5 pcs	Ambient sensor
5 pcs	Pressure switch		
5 pcs	Control resistor		
5 pcs	Ambient sensor	100 pcs	O-rings, assorted

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Existing Promulgated Training Regulations (Board Resolution No. 2005-04)				Amendments			
3.5 Training Facilities							
The building must be in compliance with occupational health and safety guidelines.				The building must be in compliance with occupational health and safety guidelines.			
Space Requirements	Space (m)	Area in Sq. Meters	Total Area in Sq. Meters	Space Requirements	Space (m)	Area in Sq. Meters	Total Area in Sq. Meters
A. Lecture area	4 x 8	32	32	A. Lecture area	5 x 8	40	40
B. Learning resource area	4 x 6	24	24	B. Workshop area (with provision trailer van simulator)*	10 x 6	60	60
C. Tool/storage area	4 x 4	16	16	C. Learning resource area	4 x 5	20	20
D. Wash, toilet and locker room	3 x 4	12	12	D. Tool/storage area	4 x 4	16	16
E. Facilities/ equipment/ circulation			25	E. Wash, toilet and locker room*	3 x 4	12	12
TOTAL AREA			109	Sub-Total			148
				F. Facilities/Equipment/ Circulation** (30% of space requirements)			44
				TOTAL AREA			192

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Existing Promulgated Training Regulations (Board Resolution No. 2005-04)	Amendments
3.6 Trainer's Qualification	
<p>Transport RAC Servicing NC II Trainer's Qualification II (TQ II)</p> <ul style="list-style-type: none"> • Must have undergone training on Training Methodology II (TM II) • He must be a holder of RAC Servicing, NC III • Good moral character • Must be physically and mentally fit • Must be computer literate • Must be a Civil Service eligible (for government position or appropriate professional license issued by the Professional Regulatory Board) • *Must have at least two (2) years job/industry experience <p><i>*Optional: Only when required by the hiring institution Reference: TESDA Board Resolution No. 2004-03</i></p>	<p>Land-based Transport Refrigeration Servicing NC II</p> <ul style="list-style-type: none"> • Must be a holder of National TVET Trainer's Certificate (NTTC) I in Land-based Transport Refrigeration Servicing NC II • Must have at least two (2) years related HVAC/R job/industry experience
3.7 Institutional Assessment	
<p>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.</p>	<p>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.</p> <p>The result of the institutional assessment may be considered as evidence for the assessment for national certification. As a matter of policy, graduates of programs registered with TESDA under these training regulations are required to undergo mandatory national competency assessment upon completion of the program.</p>

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Existing Promulgated Training Regulations (Board Resolution No. 2005-04)	Amendments
Section 4. National Assessment and Certification Arrangements	
<p>4.1 To attain the National Qualification of Transport RAC Servicing NC II, the candidate must demonstrate competency in all the units listed in Section 1. Successful candidates shall be awarded a National Certificate II signed by the TESDA Director General.</p> <p>4.2 The qualification Transport RAC Servicing NC II can be attained through:</p> <p>4.2.1 Accumulation of Certificates of Competency (COCs) in all the following units of competencies:</p> <ul style="list-style-type: none"> • Install transport air-conditioning and refrigeration units <ul style="list-style-type: none"> ○ Perform testing and commissioning for transport air-conditioning and refrigeration units • Service and maintain transport air-conditioning and refrigeration units • Troubleshoot transport air-conditioning and refrigeration systems • Recover and Recycle refrigerant in transport air-conditioning and refrigeration systems • Repair and retrofit transport air-conditioning and refrigeration systems and its accessories <ul style="list-style-type: none"> ○ Perform testing and commissioning for transport air-conditioning and refrigeration <p>Successful candidates shall be awarded a Certificate of Competency (COC) in each of the core units.</p>	<p>4.1 To attain the National Qualification of Land-based Transport Refrigeration Servicing NC II, the candidate must demonstrate competency in all the units listed in Section 1. Successful candidates shall be awarded a National Certificate II signed by the TESDA Director General.</p> <p>4.2 The qualification of Land-based Transport Refrigeration Servicing NC II can be attained through project-type assessment covering all the units of competency required in the qualification.</p> <p>4.3 Assessment shall focus on the core units of competency. The basic and common units shall be integrated or assessed concurrently with the core units.</p> <p>4.4 The following are qualified to apply for assessment and certification:</p> <p>1.4.1 Graduate of formal, non-formal, and informal including enterprise-based education/training programs/courses.</p> <p>1.4.2 Experienced workers (wage employed or self-employed)</p> <p>4.5 For individuals, holders of National Certificate of Transport RAC Servicing NC II shall be converted to Land-Based Transport Refrigeration Servicing NC II upon renewal, provided they are already employed and have related experience in transport refrigeration for the past three (3) years along the qualification.</p>

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Existing Promulgated Training Regulations (Board Resolution No. 2005-04)	Amendments
<p>4.2.2 Demonstration of competence through project-type assessment covering all the units required in the qualification</p> <p>4.3 Accumulation and submission of all COCs acquired for the relevant units of competency comprising a qualification, an individual shall be issued the corresponding National Certificate</p> <p>4.4 Assessment shall focus on the core units of competency. The basic and common units shall be integrated or assessed concurrently with the core units.</p> <p>4.5 The following are qualified to apply for assessment and certification:</p> <ul style="list-style-type: none"> • Graduate of formal, non-formal and informal including enterprise-based education/training programs/courses. • Experienced workers (wage employed or self-employed) <p>4.6 The guidelines on assessment and certification are discussed in detail in the "Procedures Manual on Assessment and Certification" and "Guidelines on the Implementation of the Philippine TVET Qualification and Certification System (PTQCS)".</p>	<p>4.6 The guidelines on assessment and certification are discussed in detail in the "Procedures Manual on Assessment and Certification" and "Guidelines on the Implementation of the Philippine TVET Competency Assessment and Certification System (PTCACS)".</p>

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WHEREAS, during the 92nd TESDA Board Meeting on 16 December 2015 at 2:00 p.m., the TESDA Board considered the amendments and approved the promulgation of the amended Training Regulations for Land-based Transport Refrigeration Servicing NC II;

NOW, THEREFORE, BE IT RESOLVED, AS IT IS HEREBY RESOLVED, that the TESDA Board in its meeting today, 16 December 2015 at 2:00 p.m, approves the aforementioned amendments to the Training Regulations for Land-based Transport Refrigeration Servicing NC II, as herein appended;

BE IT RESOLVED FINALLY that; (1) a copy of this Resolution and accompanying Training Regulations be published and disseminated to all concerned, and the same shall be effective fifteen (15) days upon publication;

(2) All programs registered under the current Transport RAC Servicing NC II Training Regulations must comply with requirements of the aforementioned training regulations as amended. The one-year period of registration under this new Training Regulations shall commence on the date of effectivity of the Implementing Guidelines/TESDA Circular for the deployment of the Training Regulations to be issued by the TESDA Secretariat; and

(3) Graduates of TVET courses covered by the aforementioned training regulation shall be required to undergo mandatory assessment under the national assessment and certification program.


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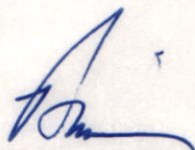
**APPROVING THE AMENDMENTS TO THE TRAINING REGULATIONS FOR
LAND-BASED TRANSPORT REFRIGERATION SERVICING NC II**

Adopted this 16th day of December 2015.



RINALYN B. DUMOL
Board Secretary VI

Attested by:



BR. ARMIN A. LUISTRO FSC
Co-Chairperson, TESDA Board
Secretary, Department of Education