130th TESDA BOARD MEETING 08 June 2021, Tuesday, 9:00 a.m. Teleconference Via Zoom Platform

> Resolution No. 2021 - 23 (Page 1 of 4 pages)

#### APPROVING AND PROMULGATING THE AMENDED TRAINING REGULATIONS FOR RAC SERVICING (DomRAC) NC H

WHEREAS, TESDA Board Resolution No. 2011-12 was issued on "Approving the Amendments to the Board Resolution No. 2005-04 on Approving and Promulgating the Training Regulations for RAC Servicing NC I" last 07 October 2011 during the 80<sup>th</sup> 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, there is a need to review the existing Training Regulations in view of the developments in technology and current trends and practices in the industry:

WHEREAS, the Refrigeration and Air-conditioning Technicians for Development of the Philippines (RACTAP) Inc. with the assistance of the Qualifications and Standards Office (QSO) of TESDA has reviewed the existing Training Regulations for RAC Servicing (DomRAC) NC II to respond to the current skills requirements of the industry with its new technologies and industry manpower set-up and recommended amendments;

WHEREAS, the industry experts and partners, headed by the officers of the Refrigeration and Air-conditioning Technicians for Development of the Philippines (RACTAP) Inc. with the technical assistance of the Qualifications and Standards Office (QSO) of TESDA endorsed the proposed revisions of the foregoing Training Regulations;

WHEREAS, during the 135th and 136th Standards Setting and Systems Development (SSSD) Committee Meetings held on 10 May 2021 and 02 June 2021, respectively, the Committee deliberated upon and agreed to favorably recommend the approval and promulgation of the Training Regulations for RAC Servicing (DomRAC) NC II which is attached as Annex "A" and made an integral part of this Resolution;

#### 130th TESDA BOARD MEETING 08 June 2021, Tuesday, 9:00 a.m. Teleconference Via Zoom Platform

Resolution No. 2021 - 23 (Page 2 of 4 pages)

### APPROVING AND PROMULGATING THE AMENDED TRAINING REGULATIONS FOR RAC SERVICING (DomRAC) NC II

WHEREAS, during the 130<sup>th</sup> TESDA Board Meeting on 08 June 2021, the TESDA Board deliberated and considered the proposed Training Regulations for RAC Servicing (DomRAC) NC II;

NOW, THEREFORE, BE IT RESOLVED AS IT IS HEREBY RESOLVED, that the aforementioned Training Regulations for RAC Servicing (DomRAC) NC II as herein appended are hereby approved and promulgated;

#### BE IT RESOLVED, FINALLY, that:

- (1) Copies of this Resolution and the abovementioned Training Regulations be published in the Official Gazette or in a newspaper of general circulation, and disseminated to all concerned, and the same shall be effective fifteen (15) days upon publication;
- (2) All programs registered under the current RAC Servicing (DomRAC) NC II must comply with the requirements of the abovementioned Training Regulations. The one-year period of re-registration under this Training Regulations shall commence on the date of effectivity as indicated in the Implementing Guidelines/TESDA Circular for the deployment of the Training Regulations to be issued by the TESDA Secretariat; and
- (3) Graduates of TVET programs covered by the aforementioned Training Regulations shall be required to undergo mandatory assessment under the national assessment and certification program.

#### 130th TESDA BOARD MEETING

08 June 2021, Tuesday, 9:00 a.m. Teleconference Via Zoom Platform

Resolution No. 2021 - 23 (Page 3 of 4 pages)

#### APPROVING AND PROMULGATING THE AMENDED TRAINING REGULATIONS FOR RAC SERVICING (DomRAC) NC II

Adopted this 8th day of June 2021.

Officer-In-Charge
TESDA Board Secretariat

Attested by:

SEC. ISIDRO S LAPEÑA, PhD, CSEE Designated Chairperson, TESDA Board Director General, TESDA

(Original Signed)
USEC. RAFAELITA M. ALDABA
Department of Trade and Industry

(Original Signed)
USEC. ARIEL T. CAYANAN
Department of Agriculture

130th TESDA BOARD MEETING

08 June 2021, Tuesday, 9:00 a.m. Teleconference Via Zoom Platform

**Resolution No. 2021 - 23** (Page 4 of 4 pages)

## APPROVING AND PROMULGATING THE AMENDED TRAINING REGULATIONS FOR RAC SERVICING (DomRAC) NC II

(Original Signed)
USEC. SANCHO A. MABBORANG
Department of Science and Technology

(Original Signed)
MR. ISIDRO ANTONIO C. ASPER
Board Member, Labor Sector

(Original Signed)
DR. LEONIDA BAYANI-ORTIZ
Board Member, Employer Sector

(Original Signed)
PROF. RANDOLPH I. NONATO
Board Member, Employer Sector

(Original Signed)

MS. MARY G. NG

Board Member, Business & Investment

Sector

(Original Signed)
MR. ARTURO M. MILAN
Board Member, Business & Investment
Sector

(Original Signed)
FR. ONOFRE G. INOCENCIO JR., SDB
Board Member, Education and Training
Sector

## AMENDMENT ON TRAINING REGULATIONS FOR RAC SERVICING (DOMRAC) NC II

Existing Promulgated Training Regulations (Board Resolution No. 2011-0012)	Amendments
Qualification Title	
RAC Servicing (DomRAC) NC II	NO AMENDMENTS
Job Title	
<ul> <li>Domestic Refrigeration and Air-conditioning Technician</li> </ul>	NO AMENDMENTS
Section 1 - Definition of the Qualification	
The RAC SERVICING (DomRAC) NC II Qualification consists of competencies that a person must achieve to enable him/her to install, service, maintain, troubleshoot and repair domestic air-conditioning and refrigeration units.	The RAC SERVICING (DomRAC) NC II Qualification consists of competencies that a person must achieve to enable him/her to install, service, maintain, troubleshoot and repair domestic air-conditioning and refrigeration units. This qualification covers window-type air- conditioning and domestic refrigerators only.
Section 2- Competency Standards	
Basic Competencies	Basic Competencies
<ol> <li>Participate in workplace communication</li> <li>Work in team environment</li> <li>Practice career professionalism</li> <li>Practice occupational health and safety procedures</li> </ol>	<ol> <li>Participate in workplace communication</li> <li>Work in team environment</li> <li>Solve/address general workplace problems</li> <li>Develop career and life decisions</li> <li>Contribute to workplace innovation</li> <li>Present relevant information</li> <li>Practice occupational safety and health policies and procedures</li> <li>Exercise efficient and effective sustainable practices in the workplace</li> <li>Practice entrepreneurial skills in the workplace</li> </ol>
Common Competencies	Common Competencies
<ol> <li>Prepare materials and tools</li> <li>Interpret technical drawing and plans</li> <li>Observe procedures, specifications and manuals of instructions</li> <li>Perform mensurations and calculations</li> <li>Perform basic benchworks</li> <li>Check basic electrical circuits</li> <li>Maintain tools, instruments and equipment</li> <li>Perform housekeeping and safety practices</li> <li>Document work accomplished</li> </ol>	NO AMENDMENTS

Competencies
nstall domestic refrigeration and air- conditioning units Service and maintain domestic efrigeration and air-conditioning units Troubleshoot and repair domestic efrigeration and air-conditioning systems
hrs – Basic Competencies hrs – Common Competencies hrs – Core Competencies hrs – Total hrs – Supervised-industry learning (SIL)* hrs. – Total training duration an be delivered thru Dual Training System (DTS)/Dualized Program (DTP) or Enterprise-based Training

#### 3.2 Training Delivery

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.

- The training is based on curriculum developed from the competency standards;
- · Learning is modular in its structure;
- Training delivery is learner-centered and should accommodate individualized and self-paced learning strategies;
- 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;
- Training program allows for recognition of prior learning (RPL) or current competencies;
- Training allows for multiple entry and exit; and
- Training programs are registered with the UTPRAS.

- The delivery of training shall adhere to the design of the curriculum. Delivery shall be guided by the principles of competency-based TVET.
- 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 selfpaced 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 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.

### Existing Promulgated Training Regulations (Board Resolution No. 2011-0012)

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:

- 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 competencybased 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.
- 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.
- Project-based instruction is an authentic instructional model or strategy in which students plan, implement and evaluate projects that have real world applications.

#### Amendments

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 may be enhanced through use of learnercentered methods as well as laboratory or fieldwork 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.

Existing Promulgated Training Regulations	Amendments
(Board Resolution No. 2011-0012)	
	2.3. Community-Based
	Community-Based is 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	
This section specifies the qualifications of	This section specifies the qualifications of trainees
trainees and educational experience. Other	and educational experience. Other requirements
requirements like health and physical	like health and physical requirements are also
requirements are also stated. Passing entry	stated. Passing entry written examinations may
written examinations may also be indicated if necessary:	also be indicated if necessary:
	Must have completed at least 10 yrs. basic
Can communicate both oral and written	education or an alternative learning systems
Good moral character	(ALS) certificate of completion with grade 10
Can perform basic mathematical computation	equivalent holder
Physically and mentally fit	<ul> <li>Can communicate both oral and written</li> </ul>
	Can perform basic mathematical computation
3.4 List of Tools, Equipment and Materials	I
	Recommended list of tools, equipment and materials
Recommended list of tools, equipment and	for the training of 25 trainees for RAC Servicing
materials for the training of 25 trainees for RAC Servicing NC II:	(DomRAC) NC II.
	Up-to-date tools, materials, and equipment of
	equivalent functions can be used as alternatives. This
	also applies in consideration of community practices
	and their availability in the local market.

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	TOOLS		
QTY.	DECRIPTION		
10 pcs	Flaring tool		
10 pcs.	Swaging tool		
5 pcs	Tube cutter		
5 pcs	Tube bender		
4 pcs.	Service cylinder 2.5 kg.,10 kg. capacity		
10 pcs	Electrical pliers		
10 pcs.	Pliers, long nose		
10 pcs.	Screw driver, flat		
10 pcs.	Screw driver, nat Screw driver Philips		
10 pcs.	Files		
5 sets.	Allen wrench		
5 pcs.	Adjustable wrench 8", 10"		
5 sets	Open wrench		
5 sets	Box wrench		
5 pcs.	Pipe wrench		
5 pcs.	Vise grip , 6 , "8 "		
5 pcs.	Thinners snip, 8"12"		
10 pcs.	Bullpen hammer, 12 oz		
5 pcs.	Rubber mallet ,oz		
10 pcs.	Hack saw		
5 pcs.	Spray gun		
10 pcs.	Steel rule , metric & english		
10 pcs.	Push rule		
5 pcs.	Tri- square		
8 pcs.	Pinch off tool		
5 pcs.	Soldering iron, 100w , 220 volts		

	EQUIPMENT
QTY.	ITEM
3 units	Vacuum pump motor, high stage, 1/2 HP , 220 volts
2 units	Recovery/ Recycling unit , portable type, 220 volts
2 units	Oxy- Acetylene welding machine w/ complete outfit
3 units	Reusable Service Cylinder 13.5kg
1 unit	Refrigerator , single door 5 cu. Ft. 220 volts
1 unit	Refrigerator, two door top mount freezer, 6 cu. Ft. 220 volts
1 unit	Refrigerator, two door no frost, 6 cu. Ft. 220 volts
1 unit	Freezer chest type, 10 cu Ft. 220 volts
1 unit	Freezer, upright 6 cu. Ft. 220 volts
1 unit	Water dispenser 220 volts
3 units	Analog Clampmeter
3 units	Digital Clampmeter
2 units	Window type aircon 2 hp 220 volts

TOOLS				
QTY.	UNIT	DESCRIPTION		
10	sets	Flaring tool		
10	sets	Swaging tool		
10	pcs.	Tube cutter		
2 3 3 3 3 2	pcs.	Tube bender (lever type), 5/8		
3	pcs.	Tube bender (lever type), 1/2		
3	pcs.	Tube bender (lever type), 5/16		
3	pcs.	Tube bender (lever type), 3/8		
3	pcs.	Tube bender (lever type), 1/4		
3	sets	Tube bender (spring type)		
2	pcs.	Service cylinder, 2.5 kg.		
		capacity		
2	pcs.	Service cylinder, 10 kg.		
		capacity		
10	pcs.	Electrical pliers		
10	pcs.	Pliers, long nose		
10	pcs.	Pliers, diagonal		
10	pcs.	Capillary tube cutter		
10	pcs.	Screw driver, flat		
10	pcs.	Screw driver Philips		
5	pcs.	Flat files, fine		
3	sets	Allen wrench, metric		
5 3 3 5 5	sets	Allen wrench, English		
5	pcs.	Adjustable wrench 8"		
	pcs.	Adjustable wrench 10"		
2 2 2 2	sets	Open wrench, metric		
2	sets	Open wrench, English		
2	sets	Box wrench		
2	sets	Socket wrench		
5	pcs.	Ratchet wrench (service valve)		
5	pcs.	Vise grip, 8"		
10	pcs.	Ballpein hammer, 8 oz		
5	pcs.	Rubber mallet		
10	pcs.	Hack saw, standard size		
10	pcs.	Steel rule, metric & English, 12"		
10	pcs.	Push rule, 15 meters		
5	pcs.	L – square, 12"		
10	pcs.	Pinch off tool		
5	pcs.	Soldering iron, 100w, 220 volts		
2	pcs.	Aviation snip, straight		

	EQUIPMENT		
QTY.	UNIT	DESCRIPTION	
3	units	Vacuum pump motor, two stage, 1/2 HP, 220 volts	
2	units	Recovery/ Recycling unit, portable type, 220 volts	
2	sets	Oxy- Acetylene welding machine w/ complete outfit	
3	units	Recovery Cylinder 20 kg	
1	unit	Refrigerator , single door 5 cu. Ft. 220 volts	

1	
1 unit	Air compressor, complete w/
	accessories 220 volts
5 units	Compressor motor 100 w , 220
	volts
2 units	Electric drill portable, 3/8 1/2,
	Chuck, 220 volts
1 set	Pedestal grinding machine, 6"
	grinding wheel 3/4 " hp. 220 volts
1 unit	Arc welding machine, Ac max. 250
	amps. 220 V, 60 hz. Heavy duty
10 sets	Gauge manifold w/ hoses
5 sets	Digital Volt ohm mili- ammeter
5 sets	Analog VOM
1 set	Electronic leak detector (Fluorine
	based)
1 set	Electronic leak detector
i	(Hydrocarbon based)
5 sets	Thermometer, dial type
5 sets	Digital Thermometer
1 set	Nitrogen regulator
2 units	Refractometer
2 units	Vacuumeter
1 unit	Refrigerant identifier
2 units	Weighing scale
Personal F	Protective Equipment
15 pairs	Safety gloves
15 pairs	Safety shoes
15 pcs	Safety goggles/spectacles
15 pcs	Face mask
1	

	MATERIALS		
Qty.	Description		
1 roll	Copper tube1/4 ", 3/8", 5/16",		
	1/2,1/8, 3/16, "OD, 50 ft. per roll		
1 roll	Aluminum tube, 3/8 "OD, 100 ft. per		
	roll		
1 roll	Capillary tube 1/16, OD, 100 ft. per		
	roll		
50 pcs.	Silver rod		
50 pcs.	Aluminum rod		
10 pcs.	Silver flux		
15 pcs.	Filter drier, 1/4 "OD flared		
	connection		
15 pcs.	Filter drier, 1/4 " OD solder		
	connection		
25 pcs.	Flare cap , 1/2" OD		
25 pcs.	Flare union, ¼ " OD		
25 pcs.	Flare plug, 1/4 OD		
13.6kg.	Refrigerant 134a		
13.6kg.	Refrigerant 22		
13.6 kgs	R 290		
1 cyl.	Nitrogen gas		
2 cyl.	Oxygen		
2 cyl.	Acetylene gas		

	*			
1	unit	Refrigerator, two door no frost, 6 cu. Ft. 220 volts		
1	unit	Freezer chest type, 10 cu Ft. 220 volts		
1	unit	Freezer, upright 6 cu. Ft. 220 volts		
1	unit	Water dispenser 220 volts		
5	units	Digital Clamp meter		
2 2	units	Analog clamp meter		
2	units	Window type aircon 1 hp 220 volts, non-inverter type		
2	units	Window type aircon 1 hp 220 volts, inverter type		
1	unit	Air compressor, complete w/ accessories 220 volts, 60 Hz		
5	units	Compressor motor 100 watts, 220 volts, 60 Hz		
2	units	Electric drill portable, 3/8, 220 volts, 60 Hz		
1	unit	Pedestal grinding machine, 220 volts, 60 Hz		
2	units	Portable grinding machine, 220 volts, 60 HZ		
3	units	Air blower (portable), 220 volts, 60 Hz		
1	unit	Arc welding machine, AC max. 50 amps. 220 V, 60 Hz		
5	sets	Gauge manifold and hoses w/ ball valves, R-410A / R-32		
5	sets	Gauge manifold and hoses w/ ball valves, R-22 / R-134a		
10	units	Digital Volt ohm milli-ammeter		
1	unit	Electronic leak detector (Fluorine based)		
1	unit	Electronic leak detector (Hydrocarbon based)		
10	units	Digital Thermometer		
1	set	Nitrogen regulator		
2	units	Vacuum meter		
1	unit	Refrigerant identifier		
2	units	Weighing scale, digital		
		ctive Equipment		
15	pairs	Hard hat		
15	pairs	Safety gloves		
15	pairs	Safety shoes		
15	pcs.	Safety goggles/spectacles		
15	pcs.	Face mask		
15	pcs.	Gas mask		

MATERIALS		
QTY.	UNIT	DESCRIPTION
1	roll	Copper tube1/4 ", 3/8", 5/16", 1/2,1/8, 3/16, "OD, 50 ft. per roll

Existing	Promulgated Training Regulations				Am
(Bo	ard Resolution No. 2011-0012)				
10 pcs.	Dual capacitor 25, 30, 35 mfd 370		1	roll	Alur
	vac				ft. p
10 pcs.	Fan capacitor ,3, 4, 5, 6, 7, mfd 220		1	roll	Cap
	vac				per
10 pcs.	Starting capacitor 60, 80, 100-105		50	pcs.	Silv
	mfd 220 volts		50	pcs.	Alur
10 pcs.	Potential relay 1, 1.5 2 hp 220 volts		10	pcs.	Silv
10 pcs.	Overload protector 1/6 ,1/8, 1/10 ,		15	pcs.	Filte
	1/5, 1.5 2hp 220 volts	1			con
10 pcs.	Current relay 1/5, 1/6, 1/8 , 1/10, hp		15	pcs.	Filte
	220 volts				con
10 pcs.	Evaporator coil		25	pcs.	Flar
10 pcs.	Condenser	ı	25	pcs.	Flar
5 pcs,	Soldering lead		25	pcs.	Flar
5 pcs.	Soldering paste		13.6	kg.	Ref
			13.6	kg.	Ref
	ipment for Conversion	Ι.	13.6	kgs	R-4
1 set	Insulated terminal connectors/rings		3	kgs	R-3
5 pcs	Sealed terminal box		3	kgs	R-6
5 sets	Screwed cable glands (various		1	cyl	Nitro
	sizes)		2	cyl	Оху
2 rolls	Flexible electric cable (# 12 & # 14)		2	cyl	Ace
2 sets	Cable strap for wiring harness		10	pcs.	Dua
5 rolls	Rubber electrical tape				370
1 booklet	Label and warning sign sticker		10	pcs.	Fan
		i			220
			10	pcs.	Star
					105
			10	pcs.	Pote

,	<del> </del>	Amendments			
1	roll	Aluminum tube, 3/8 "OD, 100 ft. per roll			
1	roll	Capillary tube 1/16, OD, 100 ft. per roll			
50	pcs.	Silver rod			
50	pcs.	Aluminum rod			
10	pcs.	Silver flux			
15	pcs.	Filter drier, ¼ "OD flared connection			
15	pcs.	Filter drier, ¼ " OD solder connection			
25	pcs.	Flare cap, ¼ " OD			
25	pcs.	Flare union, ¼ " OD			
25	pcs.	Flare plug, ¼ "OD			
13.6	kg.	Refrigerant 134a			
13.6	kg.	Refrigerant 22			
13.6	kgs	R-410A			
3	kgs	R-32			
3	kgs	R-600a			
1	cyl	Nitrogen gas			
2	cyl	Oxygen			
2	cyl	Acetylene gas			
10	pcs.	Dual capacitor 25, 30, 35 mfd 370 vac			
10	pcs.	Fan capacitor ,3, 4, 5, 6, 7, mfd 220 vac			
10	pcs.	Starting capacitor 60, 80, 100- 105 mfd 220 volts			
10	pcs.	Potential relay 1, 1.5 2 hp 220 volts			
10	pcs.	Overload protector 1/6 ,1/8, 1/10 , 1/5, 1.5 2hp 220 volts			
10	pcs.	Current relay 1/5, 1/6, 1/8, 1/10, hp 220 volts			
1	roll	Soldering lead			

3.5 Training Facilities

### Existing Promulgated Training Regulations (Board Resolution No. 2011-0012)

#### Based on a class intake of 25 students/trainees:

SPACE REQUIRMENTS	SPACE IN METERS	AREA IN SQ. METERS	TOTAL AREA IN SQ. METERS
Lecture Area*	4 x 8	32	32
Learning Resource Area	4 x 6	24	24
Workshop	6 x 10	60	60
Tool/Storage Area*	4 x 4	16	16
Wash, Toilet & Locker Room*	3 x 4	12	12
	144		
Facilities / Equipment	44		
(Area requirement is equ total teaching/leaming ar			
То	188		

<sup>\*</sup>Common facilities for all HVAC/R Courses

#### **Amendments**

#### Based on a class intake of 25 students/ trainees:

			,	
TEACHING/ LEARNING AREAS	SIZE IN METERS	AREA IN SQ. METERS	QTY	TOTAL AREA IN SQ. M
A. LECTURE AREA*	6 x 8	48	1	48
B. WORKSHOP AREA	6 x10	60	1	60
C. LEARNING RESOURCE AREA	4 x 4	16	1	16
D. TOOL/ STORAGE AREA*	3 x 4	12	1	12
E. WASH, TOILET AND LOCKER ROOM*	3 x 4	12	1	12
	148			
F. Facilities / Equip	45			
(Area requirement is total teaching/learnin				
	193			

<sup>\*</sup>Common facilities for all HVAC/R Courses
Subject to conformity of the health and safety protocols

#### 3.6 Trainer's Qualifications

#### **RAC Servicing NC II**

- Holder of National TVET Trainers Certificate Level I
- He must be a holder of RAC Servicing, NC
- Good moral character
- Must be physically and mentally fit
- Must be computer literate
- \*Must have at least two (2) years job/industry experience

\*Optional: Only when required by the hiring institution Reference: TESDA Board Resolution No. 2004-03

#### RAC Servicing (DomRAC) NC II

- Holder of National TVET Trainers Certificate
   (NTTC) Level I in RAC Servicing (DomRAC)
   NC II or Commercial Air-conditioning
   Installation and Servicing NC III / Commercial
   Refrigeration Installation and Servicing NC III
   or graduate of BSIE/BTTE/BTVTEd Major in
   RAC and with RAC Servicing (DomRAC) NC
   II or Commercial Air-conditioning Installation
   and Servicing NC III / Commercial
   Refrigeration Installation and Servicing NC III
   certificate
- Must be computer literate
- Must have at least two (2) years related industry experience within the past 5 years

#### 3.7 Institutional Assessment

<b>Existing Promulgated Training Regulations</b>	_
(Board Resolution No. 2011-0012)	

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.

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.

#### Amendments

Institutional Assessment is gathering of evidences to determine the achievements of the requirements of the qualification to enable the trainer make judgement whether the trainee is competent or not competent.

#### Section 4. National Assessment and Certification Arrangements

- 4.1 To attain the National Qualification of 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 III signed by the TESDA Director General.
- 4.2 The qualification **RAC Servicing NC II** may be attained through:
  - 4.2.1 Demonstration of competence through project-type assessment covering all required units of the qualification:
- 4.1 To attain the National Qualification of RAC Servicing (DomRAC) NC II, the candidate must demonstrate competency in all the units listed in Section 1. Successful candidates shall be awarded a National Certificate III signed by the TESDA Director General.
- 4.2 The qualification RAC Servicing (DomRAC) NC II may be attained through demonstration of competence through a single comprehensive project-type assessment covering all required units of competency of this qualification.
- 4.3 Assessment shall cover all competencies, with basic and common integrated or assessed concurrently with the core units of competency.

### Existing Promulgated Training Regulations (Board Resolution No. 2011-0012)

- 4.2.2 For individuals, who are holders of National Certificate of RAC Servicing NC I shall be converted to RAC Servicing NC II. Holders of Certificate of Competency (COC) along RAC Servicing NC I will be required to undertake the required competencies through training or assessment for RAC Servicing NC II:
- 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.

One or two additional evidences in the form of Portfolio, Third Party Report, Written Test and Demonstration with Questioning may be required by the assessor in addition to those specified in the Methods of Assessment in the Competency Standards, depending on the need for supplementary evidences.

- 4.4 The following are qualified to apply for assessment and certification:
  - 4.4.1 Graduate of formal, non-formal and informal including enterprise-based training programs
  - 4.4.2 Experienced workers (wage employed or self-employed)
- 4.5 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)".

#### **Amendments**

- 4.4 Any of the following are qualified to apply for assessment and certification:
  - 4.4.1. Graduate of formal, non-formal and informal including enterprise-based training programs
  - 4.4.2.Experienced workers in RAC servicing for at least 2 years (wage employed or selfemployed)
- 4.5 Recognition of Prior Learning (RPL). Candidates who have gained competencies through previous work or life experiences, education, and informal training related to all the core competencies may apply for recognition in the qualification through Portfolio Assessment in accordance with the provision of TESDA Circular No. 59, Series of 2020.
- 4.6 The existing National Certificate (NC) of individuals in RAC Servicing (DomRAC) NC II shall be in effect until the said NC hdave expired. Individuals are advised to take the assessment for this amended/updated TR on or before the expiration of such certificates.
- 4.7 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)".