



Technical Education
and Skills Development Authority

Webliography

The Webliography is an electronic bibliographic listing of topics related to the qualification titles of a particular TVET priority sector, with pre-searched *URLs* (uniform resource locators) and descriptions (abstracts).

The pre-searched *URLs* provide contents in reference to the title of promulgated Training Regulations (TR). By clicking the weblinks (underlined *URLs* in blue text), your internet browser will direct you to the website/webpage where you can find the topic related to the title you selected. The Webliography is a useful tool for trainers who are designing and developing competency-based curriculum and learning materials.

[TESDA](#) » [Webliography](#) » Heating, Ventilating and Air-Conditioning/Refrigeration Sector

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HVAC/R Sector

Scope:

An HVAC system allows building residents to provide a comfortable, climate controlled environment. The installers and mechanics for an HVAC system are called technicians. An HVAC technician will be trained in installation and maintenance, but may specialize in one or the other. HVAC technicians can also choose an equipment specialty, such as commercial refrigeration, hydroponics, or solar panels. The number of job openings for HVAC technicians is expected to increase between 2008 and 2018, according to the Bureau of Labor Statistics. Employment opportunities and salaries are much greater for trained and certified technicians

Source: <http://jobdescriptions.net/maintenance/hvac-technician/>

List of qualifications:

- Air Duct Servicing NC II
- Ice-Plant Refrigeration Servicing NC III
- Land-Based Transport MAC Servicing NC II
- RAC (PACU-CRE) Servicing NC III
- RAC (Domestic) Servicing NC II
- Transport RAC Servicing NC II

❖ Definition of HVAC

<http://en.wikipedia.org/wiki/HVAC>

"This webpage from Wikipedia defines HVAC as the technology for indoor and vehicular environmental comfort. HVAC stands for heating, ventilating and air-conditioning.

[Retrieved December, 2014]

❖ HVAC system description

<http://www.energyconservation.sg/index.php/resources-en/hvac-system-description-en>

This webpage from energyconservation.sg describes HVAC system in diagrams with explanations.

[Retrieved December, 2014]

❖ HVAC technician job responsibilities

<http://jobdescriptions.net/maintenance/hvac-technician/>

This webpage provides information on what HVAC technicians are expected to perform. It also includes training and education requirements, job opportunities. Salary and wages, technician certifications, and professional associations.

[Retrieved December, 2014]

❖ HVAC training jobs in the Philippines

<http://www.careerjet.ph/hvac-training-jobs.html>

This webpage from careerjet.ph provides a list of career opportunities for HVAC technicians in various places in Metro Manila. Each link in the list shows the job title, description, schedule of interviews and contact information of job providers.

[Retrieved December, 2014]

❖ HVAC training courses around the world

<http://www.askedu.net/training.asp?Course=HVAC&Location=Philippines#.VJeCMP9ZDA>

This webpage from askedu.net provides links to various training courses with certification in HVAC/R from local and foreign colleges and universities.

[Retrieved December, 2014]

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Air Duct Servicing NC II

❖ Air duct servicing in the Philippines

<http://www.courses.com.ph/air-duct-servicing-nc-ii-tesda-course-philippines/>

This webpage from courses.com.ph describes the course and requirements based on Training Regulations provided by TESDA
[Retrieved December, 2014]

❖ Ventilation duct equipment in the Philippines

<http://www.environmental-expert.com/products/keyword-ventilation-ducts-17014/location-philippines>

This webpage from environmental-expert.com provides a list of equipment for air duct ventilation and exhaust systems. Some equipment in the list can be installed in homes and others can be installed in commercial establishments.

[Retrieved December, 2014]

❖ Heating, ventilation, and air-conditioning

http://www.meptrainings.com/course-detail-heating_ventilation_air_conditioning_fast_track_-3.htm

This webpage from meptrainings.com features the course in HVAC including air duct installation, among others in the course outline.

[Retrieved December, 2014]

❖ Air duct servicing and other related jobs

<http://job-search.jobstreet.com.ph/philippines/search/air-or-duct-or-man-jobs/maintenance-repair-facilities-machinery/>

This webpage from jobstreet.com features a list of jobs with links in relation to air duct servicing. The list includes hiring agencies with job descriptions, job requirements and contact information.

[Retrieved December, 2014]

Ice-Plant Refrigeration Servicing NC III

❖ Ice making and refrigeration plant

<http://www.dost.danang.gov.vn/dost/admin/tiengviet/chuyenmuc/cgc/n/hoso/15.PDF>

This webpage describes the process of ice making in refrigeration plants. It includes an outline of refrigeration plant, refrigeration cycle, and the equipment involved in the process.

[Retrieved February, 2015]

❖ Ice plants

<http://www.fao.org/wairdocs/tan/x5940e/x5940e01.htm>

This webpage describes the design and operation of icemaking plants, for the general guidance of fish processors and fishermen. Space, power and refrigeration requirements are discussed, and the main types of icemaker are described. Methods of handling, transporting and storing ice are outlined, and the note also sets out the argument for and against making ice at sea.

[Retrieved February, 2015]

❖ Containerized ice plant – complete ice systems

<http://www.gearefrigeration.com/en-uk/Components/Ice-Machines/Containerized-ice-plants/Pages/container.aspx>

This webpage describes the medium and large capacity containerized ice plants. Easy to transport and to install on site. Sheltered from the wind and rain. Simple heavy-duty and economical. Refrigeration is available as an option.

[Retrieved February, 2015]

❖ Block ice plant – complete ice systems

<http://www.gearefrigeration.com/en-uk/Components/Ice-Machines/Containerized-ice-plants/Pages/container.aspx>

This webpage describes the ice making and harvesting section of

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the machine that produces block ice of sizes from 25 to 150 kilograms.

[Retrieved February, 2015]

❖ A study on analysis and fabrication of an ice plant model

<http://www.smslucknow.com/journals/vol2%281%29/S2%281%29-2011-61-72.pdf>

This webpage provides an in depth analysis and methods of fabrication and ice plant with working models and computation of production outputs.

[Retrieved February, 2015]

❖ Planning considerations for ice plants

<http://www.fao.org/docrep/006/y5013e/y5013e06.htm>

This webpage outlines some of the points to be considered when planning for the installation of an ice-making facility. Further information can be found in specialized publications available from many different sources, including FAO papers and publications. Some of these are listed in the bibliography.

[Retrieved February, 2015]

❖ How to start a mini ice plant business

<https://soprex.wordpress.com/2009/06/28/mini-ice-plant-how-to-start/>

This webpage provide a document on ways of starting a mini ice plant in a locality with a financing scheme.

[Retrieved February, 2015]

❖ Ice plant refrigeration servicing NC II in the Philippines

<http://www.courses.com.ph/ice-plant-refrigeration-servicing-nc-iii-tesda-course-philippines/>

This webpage provides information on Ice Plant Refrigeration Servicing NC III is a short TESDA course in the Philippines that will train you in installing, troubleshooting, servicing, and maintaining ice plant refrigeration units and components.

[Retrieved February, 2015]

❖ Packaged air conditioner – types of packaged AC

<http://www.brighthubengineering.com/hvac/61457-packaged-air-conditioners-types-of-packaged-ac/>

This webpage describes the package air-conditioners and other types. This includes the water-cooled condenser type, and air-cooled condenser types.

[Retrieved February, 2015]

❖ Engineered Packaged Systems

<http://engpkgsys.com/index.html>

This webpage provides information about the technology behind package-type and commercial air-conditioning. The operator training and field service course is provide comprehensive information and training in commercial-grade refrigeration and air-conditioning.

[Retrieved February, 2015]

❖ Practical refrigeration training centre

<http://prtc.co.uk/>

This website presents an independent training company offering a wide-range of refrigeration, air-conditioning/heat pump, refrigerant handling, design and electrical courses.

[Retrieved February, 2015]

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RAC (Domestic) Servicing NC II

Transport RAC Servicing NC II

❖ TechniSolve software

<http://www.coolit.co.za/refri/index.htm>

This webpage introduces a software by Kotza International which is designed for interactive delivery of training for various refrigeration and air-conditioning applications. The software also provides simulation for repair, configuration and adjustment of parts to conform to various situations. Five (5) software titles including a manual are available to support training.

[Retrieved February, 2015]

❖ Airedale applied thermal innovation

<http://www.airedale.com/web/Training-Events.htm>

This webpage provides courses for professional service technicians of refrigeration and air-conditioning systems. Courses offered provides optimum level of excellence in training in air-conditioning systems and operational efficiency.

[Retrieved February, 2015]

❖ Refrigeration basics: introduction to the refrigeration & air-conditioning trade

<https://www.refrigerationbasics.com/>

This webpage provide illustrative method of presenting the topics in refrigeration technology with interactive. Graphics and logically arrange materials form a mechanic's point of view.

[Retrieved April, 2015]

❖ Domestic refrigeration & air conditioning course in MA

<http://www.baystatetech.org/courses/domestic-refrigeration-air-conditioning/>

This webpage provide links to learning the fundamentals of refrigeration technology.

[Retrieved April, 2015]

❖ Technique learning solutions

<http://learntechnique.com/>

This website provide links to learning solutions for refrigeration and air-conditioning including other related courses.

[Retrieved April, 2015]

❖ 15 day air conditioning and refrigeration course

<http://hal-training.co.uk/products/15-day-air-conditioning-refrigeration-course>

This webpage presents a course for servicing, maintenance, recovery and repair of refrigeration and air-conditioning systems with video and course guide.

[Retrieved April, 2015]

❖ Domestic refrigeration and air-conditioning refrigerant

<http://skillbuildtraining.com.au/all-courses/domestic-refrigeration-and-air-conditioning>

This webpage presents a course for handling refrigerants with certification and licensure to work as technicians.

[Retrieved April, 2015]

❖ Transport refrigeration

http://3t-services.webplus.net/transport_refrigeration_training.html

This webpage offers a set of three courses primarily aimed for technicians in the transport refrigeration industry, which are ideally suited to form part of an apprenticeship or to further the knowledge and experience of technicians already in the work place.

[Retrieved April, 2015]

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❖ TRS transport refrigeration spares

<http://trsirl.com/index.html>

This website offers services for delivery trucks with mobile refrigeration or air-conditioning systems or both. It has a wide range of spare parts and qualified technicians to serve the needs of the moving and storage industry. The website also offers guaranteed training for equipment operation, handling, safety and hygiene.

[Retrieved April, 2015]

❖ AirCon Training mobile training specialists

<http://www.aircon-training.com/>

This website is an accredited City and Guilds and CITB F-Gas Centre that provides cost effective, high quality training to meet the legal requirements of the Environmental Protection Act and the F-Gas Regulations for Mobile and Fixed Air-Conditioning Systems. The company also provide customized on-site training at customer premises which include inspection and assessment.

[Retrieved April, 2015]