



REFRIGERATION AND AIR-CONDITIONING MECHANIC LEVEL 1

EES Course Number: PNGNATTB10121

Program Area: Refrigeration & Air-conditioning sector

Description:

Those gaining this qualification will be able to install and carry out basic routine maintenance on refrigeration and air-conditioning installations and equipment which is mainly routine and predictable. Typical work function includes working safely, installing equipment, terminating cords & cable, welding, brazing and soldering operations, and using test equipment, including writing simple reports.

On completion of the required modules, learners will find opportunities to perform groups of foundation and basic work activities in a particular job at this level which is mainly routine and predictable. Learners will also be eligible to pursue higher qualifications (i.e Level 2)

Career opportunities:

Career and job opportunities include electrical trade assistance, sales person, and store man, etc.

Entry requirements:

It is strongly recommended that learners wishing to undertake this course is a school leaver/non-school leaver and has a minimum of year 10 numeracy and literacy skills; physically, mentally and medically fit; non-color blind; and have a good moral character.

Recognition of prior learning and current competencies will be considered on application.

Workplace Skills Developed:

Learners completing this qualification will be competent to:

- **RAC101** – APPLY OH&S PRINCIPLES IN THE WORK ENVIRONMENT
- **RAC102** – UNDERTAKE INTERACTIVE WORKPLACE COMMUNICATION
- **RAC103** – PLAN TO UNDERTAKE AND COMPLETE ROUTINE TASK
- **RAC104** – WORK WITH OTHERS IN ENGINEERING ENVIRONMENT
- **RAC105** – USE OF HAND TOOLS AND

POWER TOOLS

- **RAC106** – INTERPRET TECHNICAL DRAWING
- **RAC107** – PERFORM ELECTRICAL / ELECTRONICS MEASUREMENT AND USE TEST AND MEASURING EQUIPMENT
- **RAC108** – INSTALL AND TERMINATE CORDS & CABLES
- **RAC109** – PERFORM BRAZING, SOLDERING, OXY-HEATING AND ARC WELDING
- **RAC110** – INSTALL REFRIGERATION AND AIR-CONDITIONING EQUIPMENT
- **RAC111** – INSTALL PIPE AND PIPE WORK ASSEMBLIES
- **RAC112** – INTERACT WITH COMPUTER TECHNOLOGY

Modules:

Learners must complete the following modules for this qualification

- Workplace communication
- Occupational Health & Safety policies and procedures
- Interpret technical drawings
- Use hand and power tools
- Perform welding, brazing and soldering Operations
- Installation RAC components and equipment
- Install pipe and pipe work assemblies
- Termination of cords and cable
- Use of testing equipment
- Interact with computer technology

Technical-Academic Award:

Learners will receive the Certificate of Competency in Level 1 Refrigeration and Air-conditioning Mechanic on successful completion of the required modules/relevant course requirement.

Course Duration:

- 4 weeks

Course Location:

- Pacific Maritime Training college

Course Fees:

- TBA