



# Machines and Motors Skill Set

State ID: GAA32

## About this course

This course is designed to develop the students theoretical and practical skills in the analysis, operation and application of industrial electrical systems in the areas of AC power systems , rotating machines, calculation of circuit network parameters , maintenance in Ore handling operations, motor selection, maintenance techniques and motor protection.

### Prerequisite Units:

There are prerequisite requirements which are covered as recognition of prior learning (RPL) based on previous qualification and work experience.

- UEENEEE126A Provide solutions to basic engineering computational problems
- UEENEEG102A Solve problems in low voltage a.c. circuits
- UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace
- UEENEEE104A Solve problems in d.c. circuits
- UEENEEG101A Solve problems in electromagnetic devices and related circuits

### Course Outline:

- UEENEEE125A Provide solutions to complex multiple path circuits.  
Includes the analysis of and solutions for electrical networks composed with multiple sources multiple sources and has a special emphasis placed on power transfer.
- UEENEEG149A Provide engineering solutions to problems in complex polyphase power circuits.

Includes generation and transfer of three phase power, analysis of balanced and unbalanced loads, power factor and power factor correction calculations and applications of three phase transformers.

- UEENEEG143A - Develop engineering solution for synchronous machine and control problems.  
Includes construction, operation and industrial applications of synchronous motors and AC generators.
- UEENEEG144A - Develop engineering solutions for D.C. machine and control problems.  
Includes DC rotating machines construction, operation and industrial applications of DC motors and generators.
- UEENEEG145A - Develop engineering solutions for induction machine and control problems.  
Includes construction, operation and industrial applications of induction motors and induction generators.

This skillset is part of UEE62111 Advanced Diploma of Engineering Technology - Electrical, a nationally recognised qualification.

Part time evening class with a combination of face to face and Blackboard delivery.

## Overview

### Semester 2, 2019

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#### Munster Campus - Jul 2019, Oct 2019



When: **Semester 2, 2019**



How: **Part Time**



Fees:

**Non-concession**

\$1,908.30