## MODULE DETAILS

**Module 4: Electrical Drawings**

Nominal duration: 3 weeks (36 hours total time commitment)

This time commitment includes the preparation reading, attendance at each webinar (1 hour plus 15-30 minutes for discussion), and the time necessary to complete the assignments and further study.

## MODULE PURPOSE

A drawing should convey precise and identical information to engineers with diverse backgrounds and expertise. This calls for standardized methodologies, conventions and approach in preparing drawings. This module covers all these aspects with respect to engineering drawings in general and electrical drawings in particular. Various types of electrical drawings and their application, the steps in planning a drawing, selection of drawing size and scale, use of standardized symbols etc. are described in detail with commonly used examples from industry practice.

## PRE-REQUISITE MODULE(S)

Module 1: Electrical Circuits

## ASSESSMENT STRATEGY

To evaluate the achievement of the learning outcomes; written assignments, group projects and practical exercises are set.

## SUMMARY OF LEARNING OUTCOMES

1. Examine and discuss drawing types, attributes and symbols
2. Interpret engineering drawings
3. Examine and discuss the basics of CAD and drawing management

### Learning Outcome 1

**Examine and discuss drawing types, attributes and symbols**

**Assessment Criteria**

1.1 Discuss the fundamentals of electrical and electronic engineering drawing

1.2 Recognize electro-technology symbols used in drawings
## ADVANCED DIPLOMA OF APPLIED ELECTRICAL ENGINEERING
## CORE MODULES

<table>
<thead>
<tr>
<th>Learning Outcome 2</th>
<th>Interpret engineering drawings</th>
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<tbody>
<tr>
<td><strong>Assessment Criteria</strong></td>
<td>2.1 Interpret the following: (a) single line diagrams, (b) 3-line diagrams, (c) schematic diagrams, (d) cabling and wiring drawings, and (e) layout drawings</td>
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<tr>
<th>Learning Outcome 3</th>
<th>Examine and discuss the basics of CAD and drawing management</th>
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<tr>
<td><strong>Assessment Criteria</strong></td>
<td>3.1 Create simple CAD diagram</td>
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<td>3.2 Discuss the basics of drawing management</td>
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<td></td>
<td>3.3 Examine and discuss CAD drawing features</td>
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## Delivery Mode

A combination of asynchronous and synchronous e-learning delivery comprising a judicious mix of interactive online web conferencing, simulation (virtual labs) software, remote online labs, online videos, PowerPoints, notes, reading and study materials (in pdf, html and word format) accessed through the Moodle Learning Management System (LMS).