

**ADVANCED DIPLOMA OF PLANT ENGINEERING**

<b>MODULE DETAILS</b>	<p><b>Module 1: Introduction to Plant Engineering</b></p> <p>Nominal duration: 2 weeks (16 hours total time commitment)</p> <p>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.</p>	
<b>MODULE PURPOSE</b>	<p>To provide participants with an overview of the plant engineering function as well as organizational principles and infrastructure requirements related to site selection, buildings, electricity and fuel.</p>	
<b>PRE-REQUISITE MODULE(S)</b>	<p>None</p>	
<b>ASSESSMENT STRATEGY / CONDITIONS OF ASSESSMENT</b>	<p>To evaluate the achievement of the learning outcomes; written assignments, group projects and practical exercises are set. The Training and Assessment Matrix (TAM) documents the assessment criteria included in these assessments, based on the learning outcomes. The Training and Assessment Strategy (TAS) documents the overall training strategy for this Advanced Diploma course. The conditions of assessment are outlined in the Assessment Guidelines, TAM and TAS. Written assignments, group projects and practical exercises are required to meet assessment criteria outlined in the Assessment Guidelines, TAM and TAS.</p>	
<b>SUMMARY OF LEARNING OUTCOMES</b>	<ol style="list-style-type: none"> <li>1. Examine and discuss the basics of Plant Engineering and site selection</li> <li>2. Examine and discuss the basics of plant infrastructure requirements</li> </ol>	
<b>Learning Outcome 1</b>	<p><b>Examine and discuss the basics of Plant Engineering and site selection</b></p>	
<b>Assessment Criteria</b>	1.1	Define and describe the organization of the plant engineering function

## ADVANCED DIPLOMA OF PLANT ENGINEERING

	1.2	Describe the role of the plant engineer
	1.3	Discuss the considerations in site selection
<b>Learning Outcome 2</b>	<b>Examine and discuss the basics of plant infrastructure requirements</b>	
<b>Assessment Criteria</b>	2.1	Outline environmental issues related to plant infrastructure
	2.2	Examine the issues related to Industrial buildings
	2.3	Discuss the on-site distribution of electricity
	2.4	Discuss the on-site storage and distribution of fuel

### **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, PowerPoint slides, notes, reading and study materials (in PDF, HTML and Word format) accessed through the Moodle Learning Management System (LMS).