DPEIP2601: Introduction to Plant Engineering

MODULE DETAILS		**Introduction to Plant Engineering DPEIP2601** Nominal duration in hours**:** 24 This time commitment includes the structured activities, preparation reading, and attendance at each webinar, completing exercises, practical assessments, and proctored assessments. It is also expected that students spend additional time on readings, personal study, independent research, and learning, practicing on remote labs and required software and working on any projects and assignments. This module covers the plant engineering function, site selection, and plant infrastructure requirements.	
MODULE PURPOSE		The purpose of this module is for participants to develop a general knowledge of the plant engineering function as well as organisational principles and infrastructure requirements related to site selection, buildings, electricity, and fuel.	
MODIFICATION HISTORY		Ver 4.0	
PREREQUISITE AND/OR CO-REQUISITE MODULES		None	
SUMMARY OF LEARNING OUTCOMES		1. Describe fundamental attributes of plant engineering and site selection. 2. Describe the basic requirements of plant infrastructure.	
LEARNING OUTCOMES		**ASSESSMENT CRITERIA**	
Learning outcomes specify what students will be able to do as a result of the learning.		Assessment criteria provide the criteria by which achievement of the learning outcomes will be judged.	
1	Describe fundamental attributes of plant engineering and site selection	1.1	Explain the function of plant engineering
		1.2	Describe the role and function of the plant engineer
		1.3	Outline considerations in site selection
2	Describe the basic requirements of plant infrastructure	2.1	Identify environmental issues and requirements related to plant infrastructure
		2.2	Outline requirements for the on-site distribution of electricity
		2.3	Explain considerations for on-site storage and distribution of fuel
DELIVERY MODE		Online and/or On-campus	
SPECIALISED RESOURCES		N/A	

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ASSESSMENT STRATEGY	METHODS OF ASSESSMENT Assessors must gather a range of evidence that is valid, sufficient, current, and authentic. Evidence can be gathered through a variety of ways including direct observation, supervisor's reports, project work, structured assessments, samples, and questioning. This will include short answer questions on the knowledge content, the use of remote and virtual labs, and writing tasks to apply the learning to academic tasks. **CONDITIONS OF ASSESSMENT** **Assessor Requirements:** Assessors must satisfy the assessor requirements in the standards for registered training organisations (RTOs) current at the time of assessment. Assessors must also hold a tertiary qualification in engineering or related field. The RTO must also ensure that assessors are able to demonstrate how they keep their industry knowledge up to date through ongoing professional development. The RTO must take appropriate steps, as an ongoing procedure, to verify information about each assessor's qualifications, vocational competencies, and current industry skills. **Assessment Conditions:** Questioning techniques should not require language, literacy, and numeracy skills beyond those required in this module. The candidate must have access to all tools, equipment, materials, and documentation required. The candidate must be permitted to refer to any relevant workplace procedures, product and manufacturing specifications, codes, standards, manuals, and reference materials. Assessments may be open book assessment and may be completed off campus. Invigilation software will be used for some assessments to ensure authenticity of work completed. Model answers and marking guide must be provided for all knowledge-based assessments to ensure reliability of assessment judgements when marking is undertaken by different assessors.