

ADVANCED DIPLOMA OF PLANT ENGINEERING

MODULE DETAILS	<p>Module 14: Process Management</p> <p>Nominal duration: 3 weeks (24 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>	
MODULE PURPOSE	<p>To enable the participants to fully comprehend the theory of process management, optimize process operations and outline HAZOP study procedures.</p>	
PRE-REQUISITE MODULE(S)	<p>Module 13: Structural and Civil Engineering Concepts</p>	
ASSESSMENT STRATEGY / CONDITIONS OF ASSESSMENT	<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>	
SUMMARY OF LEARNING OUTCOMES	<ol style="list-style-type: none"> 1. Examine and discuss the theories, concepts and principles of process management 2. Discuss the control of processes 3. Outline the procedures for HAZOP studies 	
Learning Outcome 1	<p>Examine and discuss the theories, concepts and principles of process management</p>	
Assessment Criteria	1.1	Examine process management principles and practices

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	1.2	Examine the capabilities of process management systems
	1.3	1.3 Discuss the integration of people and systems
Learning Outcome 2	Discuss the control of processes	
Assessment Criteria	2.1	Discuss the structures, characteristics and optimization of process operations
	2.2	Discuss process reactions and the associated control philosophy
Learning Outcome 3	Outline the procedures for HAZOP studies	
Assessment Criteria	3.1	Discuss the basic attributes of a HAZOP study
	3.2	Outline the detailed procedures involved in a HAZOP study
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).		