

**ADVANCED DIPLOMA OF PLANT ENGINEERING**

<b>MODULE DETAILS</b>	<p><b>Module 19: Safety Management</b></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>	
<b>MODULE PURPOSE</b>	<p>To provide participants with the ability to examine workplace safety programs as well as their correlation to maintenance procedures, and to implement effective safety management plans.</p>	
<b>PRE-REQUISITE MODULE(S)</b>	<p>Module 18: Environmental Engineering</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 issues related to the safety of personnel</li> <li>2. Examine and discuss safety plans and their implementation</li> <li>3. Describe fire protection and prevention methods</li> </ol>	
<b>Learning Outcome 1</b>	<p><b>Examine and discuss issues related to the safety of personnel</b></p>	
<b>Assessment Criteria</b>	1.1	Discuss safety considerations in the workplace

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	1.2	Describe the implementation of safe practices and safety measures
	1.3	Examine the steps for ensuring the health and safety of personnel
<b>Learning Outcome 2</b>	<b>Examine and discuss safety plans and their implementation</b>	
<b>Assessment Criteria</b>	2.1	Examine the role of safety in the success of a management plan
	2.2	Discuss the procedures for putting in place an effective safety management plan
<b>Learning Outcome 3</b>	<b>Describe fire protection and prevention methods</b>	
<b>Assessment Criteria</b>	3.1	Discuss the underlying causes of fire in a facility
	3.2	Discuss fire risk management
	3.3	Describe fire protection equipment
	3.4	Outline procedures for fire control
	3.5	Describe fire detection and suppression systems
<b>Delivery mode</b>		
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).		