

ADVANCED DIPLOMA OF PLANT ENGINEERING

MODULE DETAILS	<p>Module 18: Environmental Engineering</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>	
MODULE PURPOSE	<p>To teach participants how to achieve good air quality and implement an effective environmental management system.</p>	
PRE-REQUISITE MODULE(S)	<p>Module 17: Maintenance Management</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 essentials of indoor air, dust, and waste disposal 2. Discuss the application of Health Physics in an Industrial environment 	
Learning Outcome 1	<p>Examine and discuss the essentials of indoor air, dust, and waste disposal</p>	
Assessment Criteria	1.1	Examine and discuss the attributes of Indoor Air Quality
	1.2	Discuss the properties and effects of dust

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	1.3	Describe the methods for waste disposal
Learning Outcome 2	Discuss the application of Health Physics in an Industrial environment	
Assessment Criteria	2.1	Discuss the management of health and safety
	2.2	Describe the methods for dealing with toxic hazards and radiation
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).		