DPESM2618: Safety Management

MODULE DETAILS		**Safety Management DPESM2618** Nominal duration in hours: 36 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 principles and features of safety management systems, evaluation of hazards and risk in plant operation, fostering safety culture, and features of safety preparedness and emergency response plans	
MODULE PURPOSE		The purpose of this module is for the participants to develop knowledge of considerations and attributes of workplace safety in industrial plants and to identify the features of effective safety management.	
MODIFICATION HISTORY		Rev 4.0	
PREREQUISITE AND/OR CO-REQUISITE MODULES		N/A	
SUMMARY OF LEARNING OUTCOMES		1. Outline core principles of safety management 2. Evaluate hazards and risk in plant operation 3. Explain key strategies to enhance emergency response and safety culture in the workplace	
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.	Outline core principles of safety management	1.1	Outline safety considerations in the workplace
		1.2	Explain key principles and objectives of plant safety management
		1.3	Explain features and role of an effective safety management system (SMS)
2	Evaluate hazards and risk in plant operation	2.1	Describe procedures for hazard identification applicable to industrial plants
		2.2	Compare the features of qualitative and quantitative risk assessment techniques
		2.3	Analyse risks associated with current safety practices in the workplace
		2.4	Propose strategies to prioritise and mitigate risks in plant operations
3	Explain key strategies to enhance emergency response and safety culture in the workplace	3.1	Explain the concepts and interaction of safety culture, emergency preparedness and emergency response plans
		3.2	Outline features of an effective workplace safety culture

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		3.3	Identify processes that can improve the safety culture in a workplace
		3.4	Evaluate case studies of safety initiatives to derive recommendations for implementation or remediation
DELIVERY MODE		Online and/or face-to-face	
SPECIALISED RESOURCES		N/A	
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.	

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	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.