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MODULE DESCRIPTOR

Module Title

Delivery of Maintenance and Inspection for Asset Integrity Management			
Reference	ENM311	Version	4
Created	January 2017	SCQF Level	SCQF 11
Approved	March 2015	SCQF Points	15
Amended	January 2017	ECTS Points	7.5

Aims of Module

Enable the student to identify, justify and apply the techniques that are used to ensure quality of maintenance task delivery, and to optimise the overall effeciency of Maintenance and Turnaround activities

Learning Outcomes for Module

On completion of this module, students are expected to be able to:

- 1 Evaluate Maintenance Management practices. Establish Benchmarking, KPIs and other metrics and use these to drive performance improvement
- 2 Optimise Maintenance task delivery, including use of planning techniques, selection of tasks for Turnarounds and use of Contractors.
- ³ Identify all of the different Management controls that are needed to protect plant integrity; develop the details of the maintenance process and ensure that an effective maintenance process is established and monitored.

Indicative Module Content

Data and Information Systems: - Data collection and analysis to support Optimisation Maintenance task delivery - Computerised Maintenance Management Software Maintenance: - Development of Maintenance Strategy -Development of Spare parts requirements - Maintenance Planning - Use and Management of Maintenance Turnarounds - Insourcing and Outsourcing of Maintenance activities - Use of Contractors and Contract styles -Financial Optimisation of Maintenance activities Quality Assurance: - QA of Maintenance tasks - Technician Competence

Module Delivery

DISTANCE LEARNING: The module is delivered by online lectures, interactive group work, case study tutorials and directed self-study.

	Module Ref:	ENM31	1 v4
Indicative Student Workload		Full Time	Part Time
Contact Hours		N/A	23
Non-Contact Hours		N/A	127
Placement/Work-Based Learning Experience [Notional] Hours		N/A	N/A
TOTAL		N/A	150
Actual Placement hours for professional, statutory or regulatory boo	dy		

ASSESSMENT PLAN

If a major/minor model is used and box is ticked, % weightings below are indicative only.

Component 1	
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Туре:	Coursework	Weighting:	50%	Outcomes Assessed:	3
Description:	The coursework consists of a written report on a case study for the development and application of best practice in maintenance task delivery.			ication	
Component 2					
Туре:	Examination	Weighting:	50%	Outcomes Assessed:	1, 2
Description:	Exam ? Closed book				

MODULE PERFORMANCE DESCRIPTOR

Explanatory Text

In order to pass the module, students should achieve a mark of at least 40% in each component (which has a weighting of 30% or more) and an overall grade of D or greater.

Module Grade	Minimum Requirements to achieve Module Grade:
Α	Greater than or equal to 70%
В	In the range 60% to 69%
С	In the range 55% to 59%
D	In the range 50% to 54%
E	In the range 40% to 49%
F	Less than 40%
NS	Non-submission of work by published deadline or non-attendance for examination

Module	Requirements
would	Requirements

Prerequisites for Module	Normally a UK honours degree, or equivalent, in Engineering or related discipline at class 2.2 or above and proficiency in English language for academic purposes (IELTS minimum score of 6.5 or equivalent).
Corequisites for module	None.
Precluded Modules	None.

INDICATIVE BIBLIOGRAPHY

- Physical Asset Management Handbook Mitchel, John Steward; Hickman, John E., Amadi-Echendu; Joe E., Clarion, 2007
- 2 European Standard EN13306:2001, 'Maintenance Terminology'
- 3 Making Common Sense Common Practice, Ron Moore, Elsevier Books. (Available as RGU ebook)
- 4 Turnaround, Shutdown and Outage Management, Tom Lenahan, Elsevier, ISBN 13:978-0-7506-6787-6. (Available as RGU ebook)
- 5 Managing Maintenance Resources & Strategic Maintenance Planning, Anthony Kelly, Elsevier Books, ISBN 13:978-07506-6993-1. (Available as RGU ebook)