

# This Version is No Longer Current

The latest version of this module is available <u>here</u>

MODULE DESCRIPTOR				
Module Title				
Problem Solving				
Reference	ENM300	Version	8	
Created	January 2017	SCQF Level	SCQF 11	
Approved	December 2007	SCQF Points	15	
Amended	January 2017	ECTS Points	7.5	

#### Aims of Module

Develop a working knowledge of AIM policies, processes, tools and techniques used to drive a high performing safe and sustainable business.

## **Learning Outcomes for Module**

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

- 1 Explain the key ingredients and benefits of Asset Management (AM) and Asset Integrity Management (AIM).
- Place their organisation?s AM and AIM activities in a transparent business context and benchmark performance against peers and/or organisational best practices.
- 3 Critically analyse strengths and weaknesses; then identify, prioritise and justify effective improvement paths.
- 4 Explain and use effectively the theories of selected key thinkers on human behaviour.
- 5 Use effectively commonly used decision making tools and techniques.

### **Indicative Module Content**

- BUSINESS & ORGANISATION Asset and Asset Integrity Management Scenarios Theories of Hamel and Porter Business models Mission, Vision and Goals Managing Performance Characteristics of Top Performers Benchmarking Business Process Analysis and Design Outsourcing - HUMAN FACTORS Theories of Maslow, McGregor, Herzberg, Adair, Covey & other thinkers Leadership Management of Change Communication Negotiation - TOOLS AND TECHNIQUES Balanced Scorecard Matrix techniques for prioritisation SWOT Decision making tools Flow Charts Problem Solving Root Cause Analysis (RCA) Systems Diagrams Tutor and student experiences, case studies and examples will be used to facilitate discussion groups and exercises.

## **Module Delivery**

DISTANCE LEARNING: The module is delivered by online lectures, interactive forum discussions and directed self-study.

Module Ref: ENM300 v8

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
TOTAL	N/A	150
Actual Placement hours for professional, statutory or regulatory body		

### **ASSESSMENT PLAN**

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

# Component 1

Type: Coursework Weighting: 50% Outcomes Assessed: 1, 2, 3

The coursework consists of a written report on a case study analysing each student?s particular

Description: business and proposing an effective improvement path with a strategy for implementation of

change.

# **Component 2**

Type: Examination Weighting: 50% Outcomes Assessed: 4, 5

Description: The examination is closed book

#### MODULE PERFORMANCE DESCRIPTOR

# **Explanatory Text**

In order to pass, 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.

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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**

**Precluded Modules** 

Normally a UK honours degree, or equivalent, in Engineering or related discipline at

Prerequisites for Module 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.

None.

#### INDICATIVE BIBLIOGRAPHY

- BRIDGES, W., 2009. Managing Transitions: Making the Most of Change. Perseus Publishing.(electronic resource)
- 2 TEN HAVE, S et al 2003. Key Management Models. London: Prentice Hall. ISBN0-273-66201-5