

Liverpool John Moores University

Title: MANUFACTURING AND THE ENVIRONMENT
Status: Definitive
Code: **5506ENGSBC** (113906)
Version Start Date: 01-08-2011

Owning School/Faculty: Engineering
Teaching School/Faculty: Shanghai British College

Team	Leader
Andrew Cunningham	Y

Academic Level: FHEQ5
Credit Value: 12.00
Total Delivered Hours: 35.00
Total Learning Hours: 120
Private Study: 85

Delivery Options

Course typically offered: Semester 2

Component	Contact Hours
Lecture	20.000
Practical	15.000

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Report	AS2	Environmental Audit Exercise.	60.0	
Report	AS1	Environmental Management System Implementation Report.	40.0	

Aims

This module examines the areas of environmental management at the local and national level, in the context of business and the manufacturing industry. It will provide students with the knowledge and skills required by environmental practitioners in today's industry and commerce. The aim of this module is to both introduce the student to and engender a critical appreciation of the statutory environmental regulations; including environmental law.

Learning Outcomes

After completing the module the student should be able to:

- 1 Implement ISO14001 into a case study of a typical business organisation.
- 2 Apply EMAS and undertake an environmental audit.
- 3 Critically evaluate a range of environmental legislation that effect manufacturing industries.
- 4 Adapt to changes in environmental legislation.

Learning Outcomes of Assessments

The assessment item list is assessed via the learning outcomes listed:

Environmental Audit Exercise.	1	2
Environmental Management System	3	4

Outline Syllabus

Environmental management systems (EMS); techniques and implementation. Sourcing of key legislative instruments and standards with respect to a range of business and enterprise. 14001 Environmental Management. EMAS- Environmental Eco-management and Audit scheme. Local, regional, national and international bodies. Legislation affecting industry and business including: air, climate, chemicals, conservation, energy, land, noise, plant protection, pollution, radioactive substances, waste and water. Sourcing and adopting future legislation.

Learning Activities

This module explores environmental regulation in theory and practice, based on a number of case studies to aid students develop their own perspective on the regulatory principles in action and on the realities of environmental regulation when applied to manufacturing.

References

Course Material	Book
Author	McEldowney, J F and McEldowney, S.
Publishing Year	2001
Title	Environmental Law and Regulation
Subtitle	
Edition	
Publisher	Blackstone Press
ISBN	1841741140

Course Material	Book
Author	Fiorino, D. J.
Publishing Year	2006
Title	The New Environmental Regulation
Subtitle	
Edition	
Publisher	MIT Press
ISBN	0262562189

Course Material	Book
Author	Campbell, D
Publishing Year	1996
Title	International Environmental Laws and Regulations
Subtitle	
Edition	
Publisher	Chancery Law Publishing
ISBN	047195229X

Notes

The assessments of the module will be develop the use of environmental management systems (EMS) within manufacturing organisations through the application of EMS techniques to appropriate case studies.