## Module descriptor 2017/2018

<table>
<thead>
<tr>
<th>Module code:</th>
<th>ENGM066</th>
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<tbody>
<tr>
<td>Module title:</td>
<td>Environmental Auditing and Management Systems</td>
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<tr>
<td>FHEQ level:</td>
<td>7</td>
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<tr>
<td>Module Leader:</td>
<td>Walter Wehrmeyer</td>
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<tr>
<td>Other contributors:</td>
<td>Steve Lowe</td>
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<tr>
<td>Number of credits:</td>
<td>15</td>
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<tr>
<td>Number of ECTS credits:</td>
<td>7.5</td>
</tr>
<tr>
<td>Module availability:</td>
<td>Semester 2</td>
</tr>
<tr>
<td>Overall student workload:</td>
<td>150 Hours</td>
</tr>
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<td>Date of production/revision of the descriptor:</td>
<td>19 July 2017</td>
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### Assessment pattern

<table>
<thead>
<tr>
<th>Units of assessment</th>
<th>Weighting towards module mark (%)</th>
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<tbody>
<tr>
<td>Pre-module reflective essay.</td>
<td>30%</td>
</tr>
<tr>
<td>Post-module essay.</td>
<td>70%</td>
</tr>
<tr>
<td>Alternative assessment: Different choice of essay topics for either assessment</td>
<td>N/A</td>
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Qualifying condition(s)

A weighted aggregated mark of 50% is required to pass the module.

### Pre-requisite/co-requisites

None

### Module overview

The dominant approach towards identifying, documenting and minimising the effects an organisation has on its specific and the wider (physical and to some extent social) environment is originated in the Total Quality Management (TQM) Movement. Auditing as the systematic process of performance evaluation against pre-set standards, as well the need to embed all activities into a contrived system of managing activities are at the heart of environmental management. They are also at the heart of this module, which has the purpose of introducing environmental auditing and environmental management systems in a practical, informative and useful manner.

The course will explore the dominant, practical and topical concerns surrounding environmental auditing and environmental management systems. It is one of the components required for the Associate Membership of IEMA.

### Module aims

This module aims to:

- To provide a solid understanding of the knowledge, skills and steps required to undertaking an Environmental Audit.
- To understand & develop appropriate Environmental Policies
- To be able to competently read an environmental audit report.
- Increase understanding of the meaning and function of EMS and its certified standards;
  - improve the understanding of the role of EMS
  - aid in the collection of data within an EMS
  - appreciate common implementation problems
  - discuss and highlight practical experiences of EMS implementation
Learning outcomes
On successful completion of this module, students will be able to:

- Understand the knowledge, process and practice of Auditing in an organisation, as well as put the results of an audit into an organisational context (C)
- Be able to outline and articulate differences in types of audits (K), as well as how auditing can support broader environmental management (K)
- Review an organisation’s environmental performance in broad terms (T) and develop a Register of Significant Environmental Aspects
- Advise on the auditability of an organisation to adopt a register of significant environmental aspects (T, P)

Key: C-Cognitive/Analytical; K-Subject Knowledge; T-Transferable Skills; P- Professional/Practical skills

Module content
Indicative content includes:

- Implementation aspects of management systems
- ISO14001, EMAS – their content, main differences and similarities.
- Details to consider when implementing ISO14001
- Developing and reviewing an environmental aspects register
- Role of auditing in EMS implementation

Methods of teaching/learning
The learning and teaching is designed to encourage active, case-based learning. The module will encourage students to explore and critically evaluate theoretical perspectives underpinning practice cases, and consider their application to their own organisations, as far as they know them.

The learning and teaching methods include:

- Lectures and class discussions (25 hours)
- Site visits (7 hours)
- Independent study (118 hours)

Assessment strategy
The assessment strategy is designed to provide students with the opportunity to demonstrate their critical thinking and practical skills in understanding and evaluation the environmental performance of a company, as well as the ability to critically reflect on the concept and practice of auditing.

Thus, the summative assessment for this module consists of:

- 1000 word individual pre-module reflective essay. (30%)
- 3000 word post-module reflective essay or company report. (70%)

Formative assessment

- Lectures and class discussions (25 hours)
- Site visits (7 hours)
- Independent study (118 hours)

Feedback

- Commentary and feedback on the written output, as well as the class discussions


**Reading list**

**Essential reading**


**Recommended reading**

A separate list is available on SurreyLearn

**Background reading**

A separate list is available on SurreyLearn