

# Course Specification EMS Implementation



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## 1. ABOUT US

IEMA is the membership body for more than 15,000 environment and sustainability professionals worldwide.

We support individuals and organisations in setting and achieving globally recognised standards for sustainable practice, in turn driving the development and uptake of sustainability skills.

We add value for our members by providing the knowledge, connections and recognition necessary to lead change within organisations at all levels.

We are independent and international. We apply the combined expertise of our members to provide evidence and influence decision-making, working towards our vision of transforming the world to sustainability.

### 2. BACKGROUND

This course is designed to give learners the necessary knowledge and skills needed in a role to implement an Environmental Management System (EMS) that will be relevant to their own organisation, leading to environmental performance improvement and business benefits. Training providers should make candidates fully aware of the key differences between the 2015 version of ISO 14001 and the previous 2004 version.

### **3. COURSE DURATION**

The guided learning hours for the EMS Implementation Course is a minimum of 24 hours (excluding breaks and assessment); which can include pre-course reading, guided homework as well as teaching delivery. This will normally be delivered over a period of three consecutive days, but can be split over a reasonable period, with IEMA approval.

Please see section 6 for details regarding the assessment weighting against each learning outcome, which provides guidance regarding the areas of focus within the course.

#### 4. WHO IS THIS COURSE FOR?

This course is aimed at individuals planning on implementing an EMS in their organisation or who have been given responsibilities to help manage it.

There are no formal entry requirements for learners enrolling on the IEMA Certified EMS Implementation course; however, it is recommended that candidates have completed the IEMA Certified Foundation Course in Environmental Management or have an equivalent level of knowledge or experience of environmental issues. Initial assessment of a learner should include the appropriateness of the course for the learner and their ability to complete it.

### **5. MATERIALS AND CERTIFICATION**

There are no IEMA materials available for this course and course providers must develop materials for approval by IEMA.

IEMA recognises that course providers may need to tailor courses for particular clients or learners. Tailoring of the course is encouraged provided that the learning outcomes of the course are still met. It is recommended that tailoring of the course is through case studies and case examples. Training courses may go beyond the minimum requirements set out in the learning outcomes; this should be supported by additional time to deliver the course and to suit the particular needs of the audience. This course is an IEMA Certified course and certificates are provided by IEMA to learners who have successfully completed the course. Dual branding of certificates to include training partner logos is available as an option.

Please contact <u>training@iema.net</u> for further details.

#### 6. ASSESSMENT

The course provider should develop a methodology for assessing learners and include this in their submission to IEMA for approval. Assessment should be via a combination of an end-of-course examination and post-course project:

 End-of-course examination: The end-of-course examination should examine the learners' understanding and application of course learning outcomes 1-4 and should be weighted equally between each of the 4 learning outcomes – it should not be a test of memory of the course discussions or literature.

The course examination may be either:

- 'open book' under exam conditions (learners may have the supplied course notes, standards and their own course notes); or
- 'closed book' (learners may have only the standards).

The end-of-course examination should carry a weighting of 40% of the overall course mark.

2. Post-course project: This project should be based on a learner implementing an EMS for their own organisation, building on the knowledge gained during the course, specifically learning outcome 5. Alternatively, the project may be based on an organisation that the course provider knows of, and allocates to the individual.

The post-course project should carry a weighting of 60% of the overall course mark.

### **7. TRAINER REQUIREMENTS**

In addition to the trainer requirements set out in the policy manual, *Guide to becoming an IEMA Training Centre*, trainers are required to be a Full member of IEMA, or as a minimum have equivalent knowledge and experience that has been assessed against the IEMA Environmental Skills Map at the managerial level. Trainers must also have substantial proven practical experience of environmental management systems.

## **8. LEARNING OUTCOMES**

There are five Learning Outcomes for this course which are as follows:

- 1. Understand the opportunities and risks corporate sustainability presents to organisations
- 2. Understand Environmental Management Systems and their application
- 3. Understand key Environmental Management Standards and the certification process
- 4. Understand how to plan and manage the implementation of an EMS
- 5. Understand how to implement an EMS and evaluate its effectiveness

Detailed assessment criteria and scope for each learning outcome are provided below.

Learning Outcome	Assessment Criteria (the learner can)	Scope (the learner will be familiar with)
(the learner will)		
1. Understand the opportunities and	1.1 Explain the meaning of corporate sustainability	Corporate Sustainability – see the emerging 'common lexicon' in the IEMA/GACSO white paper (and updates)
risks corporate sustainability presents to organisations	<ol> <li>1.2 Explain the concept of organisational context in terms of corporate sustainability</li> <li>1.3 Explain the business drivers for corporate sustainability and</li> </ol>	<b>Organisational Context</b> – broad interpretation including aspects of product and service lifecycle and the value chain
	the role of EMS in relationship to these	<ul> <li>Environmental and business benefits:</li> <li>Expectations of various stakeholders – legal, moral and</li> </ul>
	1.4 Explain the potential impacts upon organisations of a changing natural environment including reference to megatrends e.g. natural resource constraints, climate change, changing sea levels etc. and also of the impact of changing political, regulatory and technological landscape	<ul> <li>financial</li> <li>Opportunities and/or Risks between the environment and an organisation e.g. those that a changing environment presents to organisations in the short, medium and long term and those that an organisation presents to the environment</li> </ul>
	1.5 Understand the importance of stakeholder expectations and involvement in the development of EMS, and how to gather and analyse them	<ul> <li>Implications for organisations of changes to resource availability, supply and security</li> <li>Value creation through managing environment across the value chain</li> </ul>
	1.6 Describe the complexities of trying to balance or resolve environmental and socio-economic needs	<ul> <li>Enhancing environmental performance</li> <li>Continual improvement in both process and outcomes</li> </ul>
	1.7 Explain the <b>environmental and business benefits</b> of environmental management systems	<b>Top Management</b> – an initial description of elements associated with accountability, commitment, encouragement
	1.8 Explain the critical roles and responsibilities of top management in defining, designing and operating an EMS which delivers effective performance management within	and allocation of resources, plus their role in the setting of organisational strategy and objectives and in the ongoing review of the performance and continual improvement of the

Learning Outcome		Assessment Criteria (the learner can)	Scope (the learner will be familiar with)
(the learner will)			
		an organisational context	EMS
2.	Understand Environmental Management	2.1 Explain the strategic context for establishing an environmental management system	Strategic Context – relationship with organisations strategic plans and opportunities to support corporate outcomes
	Systems and their application	2.2 Explain the elements of an environmental management system and explain the relationship between environmental management systems and other organisational operational, financial and management systems	Elements of an environmental management system - Continual improvement cycle ( plan, do, check, act), internal controls, document control, competence, communication etc Other organisational operational, financial and management
		2.3 Compare and contrast how different organisations approach environmental management	systems – quality management systems, health and safety management systems, energy management systems process control, accounting systems and governance
		2.4 Introduce the concept of <b>stakeholder engagement</b> in the development of policies and processes by organisations	<b>Different organisations</b> – micro, SME, large, multi-national, sectors, and geography (e.g. approach between organisations in developed vs developing / emerging economies)
		<ul> <li>2.5 Explain the relationship between environmental management systems and other environmental management, monitoring and assessment tools</li> <li>2.6 Explain the need to monitor performance, to evaluate and</li> </ul>	<b>Stakeholder engagement</b> - the importance and role of interested parties both internal and external in determining the scope of the EMS and the development and definition of
		<ul> <li>analyse outcomes and to develop appropriate responses and corrective outcomes on the basis of the results</li> <li>2.7 Evaluate the importance of the continual improvement cycle within an environmental management system as a</li> </ul>	Other environmental management, monitoring and assessment tools – environmental audit, risk assessment, life- cycle assessment, foot-printing, GHG/Carbon/Non-financial accounting

Learning Outcome	Assessment Criteria (the learner can)	Scope (the learner will be familiar with)
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	driver for system and environmental performance	
	improvement	Appropriate responses – the adjustment of the system and
		performance criteria to take account of the impacts of a
	2.8 Describe the link between EMS and wider organisational	changing environment and organisational structures. To review
	context, governance and risk management controls	both the long-term resilience of organisations to change as well
		as short term pollution prevention and incident response.
		Context – the internal and external issues relevant to the
		organisation's purpose and that affect its ability to achieve the
		intended outcomes of its EMS. Such issues include potential
		impacts on the organisation of emerging mega-trends in a
		changing environment and the importance of bio-diversity and
		resource efficiency to organisations
3. Understand key	3.1 Compare and contrast key environmental management	Key environmental management standards – ISO14001, EMAS,
Environmental	standards and their purpose	BS8555, ISO14005 (in countries where they are relevant)
Management		
Standards and the	3.2 Outline the relevance of other environmental	Other environmental management standards – ISO 14031, ISO
certification	management standards and identify where to access the	n 14040 series, ISO 14063, ISO 19011, ISO 26000, ISO 50001 and
process		GRI
	3.3 Outline the meaning of key environmental management	
	systems terminology	Key environmental management systems terminology –
		organisational context, aspects and impacts, audit, inspections,
	3.4 Identify the benefits, costs, strengths and weaknesses of	stakeholders, management review, risks and opportunities,
	external certification	significance, continual improvement, initial environmental
		review, policy etc
	3.5 Describe the certification process	
		Certification process – difference between certification of the

Learning Outcome	Assessment Criteria (the learner can)	Scope (the learner will be familiar with)
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	3.6 Identify the competencies required of a third party auditor	system and accreditation of the certification body. The links
		and relationships with regulatory and enforcement regimes
		Third party auditor- accreditation, professional qualifications,
		competence: e.g. sector experience, auditing experience,
		environmental knowledge and understanding
4. Understand how	4.1 Explain the critical importance of top management in the	Top Management – an initial description of aspects associated
to plan and	design, implementation and effective operation of the EMS	with accountability, commitment, encouragement and
manage the		allocation of resources, plus their role in the setting of
implementation	4.2 Explain the role and responsibilities of a project manager	organisational strategy and objectives and in the ongoing
of an EMS	implementing an environmental management system	review of the performance and continual improvement of the EMS
	4.3 Identify the key organisational issues and barriers to	
	consider in implementing an EMS	<b>Issues and barriers</b> – values, culture, communication, resource availability, stakeholders, knowledge and skills, top
	4.4 Describe how to prepare a <b>project plan</b> and what it should include	management buy-in, organisational structure
		Project plan – tasks, timescales, roles and responsibilities,
	4.5 Explain how to monitor project progress	resources, risks, opportunities and mitigation strategies to manage the identified issues
	4.6 Demonstrate knowledge of relevant sources from where to	
	access environmental information and advice	Monitor – review progress against key milestones in the
		project plan, identify when problems occur and implement
		appropriate corrective action if needed
		Relevant sources – environmental consultants, professional

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		bodies (e.g. IEMA), regulators, certification bodies
5. Understand how	5.1 Identify the scope of an EMS and set it within the concept	Scope – includes consideration of the organisation, its context,
to implement an	of the organisational context	its value chain and the needs and expectations of interested
EMS and evaluate		parties and lifecycle considerations
its effectiveness	5.2 Understand the importance of an initial environmental	
	review and its outcomes taking into account how the	Relevant – impacts to and from the environment, considering
	changing external environment impacts upon the	what it can control or influence, having a life cycle perspective
	organisation, its market place, and its internal and externa	reviewing the entire value chain to include aspects of product
	stakeholders	and service design, development and delivery, including
		procurement and end of life considerations as appropriate
	5.3 Identify relevant environmental aspects and impacts	
		Significance – criteria (e.g. those commonly accepted) for
	5.4 Evaluate the significance of environmental aspects and	determining significance; the relationship to wider
	impacts	organisational risks and opportunities; and the relationship
		between significance and materiality (from both a financial and
	5.5 Describe the key features of an environmental policy	non-financial reporting perspective – the definitions are
		different)
	5.6 Outline the legislative framework, types of law and the ro	le
	of regulators	Types of law - common and statute law, and civil and criminal
		law (in jurisdictions where they exist)
	5.7 Identify relevant compliance obligations and know how to	
	maintain compliance	Relevant compliance obligations - legislation relevant to an
		organisation's environmental context/ aspects (e.g. Mandatory
	5.8 Determine the risks and opportunities related to aspects,	GHG reporting and pollution control type legislation as well as
	compliance and the organisation's context	voluntary codes of conduct, client contractual obligations etc.)

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	5.9 Explain how to set objectives and to set them in the	<b>Operational controls</b> – work instruction, procedures, training,
	context of broader business processes and controls	technologies, strategies; applicable to the entire value chain of
	(including aspects of design and purchase)	the organisation including aspects of product and service
		design, development and delivery, and procurement
	5.10 Prepare an action plan/programme for achieving objectives	
		Documented information control and storage – electronic and
	5.11 Explain how to establish and maintain operational	hard copy information; information security, relevant IT
	controls, change management processes and controls; and	systems control (e.g. archive, back up, etc – relevant to
	the response to unplanned changes in the organisational	mandatory data reporting); and appropriate retention periods
	context	
		Methods - including direct approaches e.g. equipment and
	5.12 Describe the role of documented information, <b>documented</b>	meters, and indirect approaches e.g. staff awareness surveys
	information control and storage within an EMS	
		Evaluate environmental performance – audit and audit
	5.13 Identify which components of the EMS and the	programmes, top management review, key performance
	organisation's performance should be monitored	indicators, benchmarking, evaluating compliance status and
		system effectiveness, fulfilment of compliance obligations
	5.14 Outline appropriate methods for monitoring and	
	measuring environmental performance, evaluate the	Accounting and reporting – including data accounting systems,
	results and determine effectiveness of process and	data verification and quality control, review and use of data for
	outcomes, in mitigating adverse impacts or organisational	internal decision making, and external reporting
	activities and in reviewing the effectiveness of corrective	
	actions	Communications – review likely organisational
		communications that may have environmental sustainability
	5.15 Describe how to evaluate environmental performance and	content (e.g. board papers, investor feedback, product
	performance outcomes of the EMS and how this	brochures, regulatory reports etc). Identify the likely channels
	information is used to drive continual improvement	and persons responsible for such communications; clearly

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	5.16 Explain the role of monitoring, measurement, accounting and reporting in an effective environmental management system and in the management or environmental improvement	define the objectives and required outcomes for such communications; define the requirements for quality control and assurance of data/information to ensure reliable information is output from the management system and the communications process
	<ul> <li>5.17 Explain the importance of communications both internal and external in the development and ongoing implementation of the EMS, and stress the criticality of the reliability of information provided in those communications</li> <li>5.18 Outline the role of internal audit in improving the EMS and in driving performance improvement</li> </ul>	
	5.19 Describe the key importance of Management Review in the assessment of the effectiveness of the EMS, and in particular at the strategic level, and describe its critical role in driving forward the process of continual improvement of both the system and the organisation's environmental performance	

## 9. PROGRESSION AFTER THIS COURSE

Learners wishing to progress after this course should consider taking the following courses:

- Internal Environmental Management System (EMS) Auditor course
- Foundation Course in Environmental Auditing
- Associate Certificate in Environmental Management

### **10.CONTACT US**

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