



UNIVERSITI TEKNOLOGI MARA

EVT472: ENVIRONMENTAL MANAGEMENT SYSTEM

Course Name (English)	ENVIRONMENTAL MANAGEMENT SYSTEM APPROVED
Course Code	EVT472
MQF Credit	3
Course Description	This course covers the studies of environmental management system (ISO 14001) and it's supporting documents, implementation and registration of the standard. The course emphasized on step-by-step approach for implementation of environmental management system and environmental audit.
Transferable Skills	Communication Skills, Teamwork Skills, Organization Skills
Teaching Methodologies	Lectures, Blended Learning, Presentation
CLO	<p>CLO1 Describe the background of environmental management system standard and be able to apply ISO 14001</p> <p>CLO2 Employ procedure for ISO 14001 standards and it's supporting documents, implementation and registration.</p> <p>CLO3 Present verbally on ISO 14001 standards and it's supporting documents, implementation and registration.</p>
Pre-Requisite Courses	No course recommendations
Topics	
<p>1. Environmental Management System (ISO 14000) : An Overview</p> <p>1.1) 1.1 ISO 14000 series standard 1.2) 1.2 Objective of ISO 14000 1.3) 1.3 Scope of ISO 14000 1.4) 1.4 Applicability of ISO 14000. 1.5) 1.5 Rationale for ISO 14000 registration.</p>	
<p>2. The development of Environmental Management System (ISO 14001)</p> <p>2.1) 2.1 Origin of ISO 14000. 2.2) 2.2 Environmental management history 2.3) 2.3 Standard and standardization. 2.4) 2.4 International organization for standardization. 2.5) 2.5 SAGE 2.6) 2.6 TC207</p>	
<p>3. ISO 14000 series</p> <p>3.1) 3.1 Environmental Management System ISO 14001 3.2) 3.2 Environmental Performance Evaluation ISO 14030 series 3.3) 3.3 Environmental Audit ISO 19011 3.4) 3.4 Environmental Labeling ISO 14020 series 3.5) 3.5 Life Cycle Assessment ISO 14040 series</p>	
<p>4. Term, definition and scope</p> <p>4.1) 4.1 ISO 14001 4.2) 4.2 ISO 19011 4.3) 4.3 ISO 14001 vs ISO 14004</p>	
<p>5. Requirement of ISO 14001: 2004</p> <p>5.1) 5.1 Requirement Section 1: General – Environment Management System 5.2) 5.2 Requirement Section 2: Environmental Policy 5.3) 5.3 Requirement Section 3: Planning 5.4) 5.4 Requirement Section 4: Implementation and operation 5.5) 5.5 Requirement Section 5: Checking 5.6) 5.6 Requirement Section 6: Management Review</p>	

6. Environmental Management System Documentation

- 6.1) 6.1 ISO 14000 Documentation requirements
- 6.2) 6.2 Format requirements
- 6.3) 6.3 Reformatting preexisting documentation
- 6.4) 6.4 Combining required documentation
- 6.5) 6.5 Cross-referencing documentation
- 6.6) 6.6 Structure of the documentation system
- 6.7) 6.7 Electronic documentation

7. Environmental Management System Audit (ISO 19011)

- 7.1) 7.1 Principles of auditing
- 7.2) 7.2 Managing an audit programme
- 7.3) 7.3 Audit activities
- 7.4) 7.4 Competence and evaluation of auditors

8. Registration and the Audit Process

- 8.1) 8.1 Self-declaration or Certification / Registration.
- 8.2) 8.2 Registration process.
- 8.3) 8.3 Selecting a registrar.
- 8.4) 8.4 EMS audit – definition.
- 8.5) 8.5 Types of EMS audit.
- 8.6) 8.6 Objective of EMS audit.
- 8.7) 8.7 Audit scope and process.
- 8.8) 8.8 Follow-up activities:

9. Registration of ISO 14001

- 9.1) 9.1 Organization decision to implement ISO 14000.
- 9.2) 9.2 Deciding whether to pursue ISO 14000 registration.
- 9.3) 9.3 Potential registration problem.
- 9.4) 9.4 Minimizing registration costs.
- 9.5) 9.5 Fifteen step to registration.
- 9.6) 9.6 Follow-up to registration.

10. Other ISO Standard, Issues, and Developments

- 10.1) 10.1 ISO 9000 Quality Management Standard.
- 10.2) 10.2 OSHA 18000 Occupational Health and Safety Standard.

11. Site Visit Presentation

- 11.1) n/a

Assessment Breakdown	%
Continuous Assessment	60.00%
Final Assessment	40.00%

Details of Continuous Assessment	Assessment Type	Assessment Description	% of Total Mark	CLO
	Assignment	Assignment	10%	CLO2
	Presentation	Presentation	20%	CLO3
	Test	n/a	30%	CLO1

Reading List	Recommended Text	<ul style="list-style-type: none"> Dentch, P. M. 2016, <i>The ISO 14001:2015 Implementation Handbook: Using the Process Approach to Build Environmental Management System.</i>
	Reference Book Resources	<ul style="list-style-type: none"> ISO 2015, <i>ISO 14001:2015 Environmental Management Systems – Requirements with guidance for use</i>, ISO ISO 2016, <i>ISO 14004:2016 Environmental Management Systems – General guidelines on implementation</i>, ISO
Article/Paper List	This Course does not have any article/paper resources	
Other References	This Course does not have any other resources	