

SRM VALLIAMMAI ENGINEERING COLLEGE
(An Autonomous Institution)

SRM Nagar, Kattankulathur – 603 203

DEPARTMENT OF MECHANICAL ENGINEERING

QUESTION BANK



M.E. INDUSTRIAL SAFETY ENGINEERING
III SEMESTER

1915008 OHSAS 18000 AND ISO 14000

Regulation – 2019

Academic Year 2021 – 2022

Prepared by

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SUBJECT CODE/NAME: 1915008 - OHSAS 18000 AND ISO 14000

SEM / YEAR : III/M.E - ISE (II YEAR)

UNIT I - OHSAS STANDARD	
Introduction – Development of OHSAS standard – Structure and features of OSHAS 18001 – Benefits of certification-certification procedure – OH and S management system element, specification and scope - correspondence between OHSAS 18001, ISO 14001:1996 and ISO 9001:1994 – Guidelines (18002:2000) for implementing OHSAS 18001.	

PART A (2 Marks)			
1	List out the OHSAS Standard.	BT-1	Remembering
2	Express a short note on OHSAS policy.	BT-2	Understanding
3	Explain the benefits of BS OHSAS 18001 Occupational Health and Safety Management.	BT-3	Applying
4	Bring out the purpose of OHSAS.	BT-4	Analyzing
5	Discuss basic elements of OHSAS.	BT-5	Evaluating
6	Can you interpret the elements of occupational health and safety?	BT-6	Creating
7	Examine the meaning of OHSAS.	BT-1	Analyze
8	Mention any two benefits of certification.	BT-2	Understand
9	Write about OHSAS management system elements.	BT-3	Evaluate
10	Analyse the key elements of a health and safety management system.	BT-4	Understand
11	Examine the purpose of a health and safety management system.	BT-5	Application
12	Explain the 5 elements of safety.	BT-6	Remember
13	What is the ISO 14001 standard?	BT-1	Application

14	Can you brief about the scope of OH and S management system elements?	BT-2	Understand
15	Identify the features of OHSAS 18001.	BT-3	Evaluate
16	Why do you think Is OHSAS 18001 a legal requirement?	BT-4	Understand
17	Define HSE Management System.	BT-1	Application
18	Can you explain How is ISO measured?	BT-2	Understand
19	What does a safety management system consist of?	BT-1	Application
20	Why is OHSAS 18001 important?	BT-1	Application

PART B (13 Marks)			
1	Explain the need to evaluate OHSMS effectiveness.	BT-1	Remembering
2	Discuss about implement OHSAS 18001 in your organization.	BT-2	Understanding
3	What are the practical steps to becoming OHSAS 18001 certified?	BT-3	Applying
4	Examine the Basic principles and methodology.	BT-4	Analyzing
5	Elaborate List of ISO 14000 series standards.	BT-5	Evaluating
6	Explain BS OHSAS 18001 and correspondence with other management standards.	BT-6	Creating
7	Brief about OH and S management system element and its Scope.	BT-1	Remembering
8	Discuss why do organisations develop an OHSMS.	BT-2	Understanding
9	Elaborate The General Characteristics of an OHSMS.	BT-3	Applying
10	Discuss in detail about BS OHSAS 18001 requirements.	BT-4	Analyzing
11	Explain Inputs and Process of BS OHSAS 18001 requirements.	BT-1	Application
12	Discuss about Documentation of roles and responsibilities of BS OHSAS 18001.	BT-2	Understand
13	What are the between OHSMS and Quality and Environment Management Systems?	BT-1	Application
14	What are the Steps to OHSAS 18001 Certification.?	BT-1	Application
PART C (15 Marks)			
1	Tabulate ISO 14001:1996 explain in detail about its Advantages and Disadvantages.	BT-1	Remember
2	Discuss the correspondence between OHSAS 18001, ISO 14001:1996.	BT-2	Understanding
3	Point out the Guidelines of OHSAS 18001 and its Purposes.	BT-4	Analyzing
4	Explain in detail Development of OHSAS standard in Automobile industry .	BT-1	Remember

UNIT II - OHSAS 18001 POLICY AND PLANNING

Developing OH and S policy– Guidelines – Developments - procedure - Content of OH and S policy – General principle, strategy and planning, specific goals, compliance – methodology. Planning – Guidelines, methodology steps developing action plan – Analysis and identify the priorities, objective and Targets, short term action plan, benefits and cost of each option, Development of action plan.

PART A (2 Marks)

1	How do you develop a health and safety policy?	BT-1	Understand
2	What are HSE policies?	BT-2	Remember
3	List out the components of a health and safety policy.	BT-3	Analyze
4	Differentiate between HSE policy and HSE plan.	BT-4	Remember
5	Write about the OHSAS 18001 fundamentals.	BT-5	Understand
6	Give List of any four Certification process.	BT-6	Understand
7	How do you draft a health and safety policy?	BT-1	Application
8	Describe the principles of occupational health and safety.	BT-2	Remember
9	How to Maintaining of OHS Policies?	BT-3	Remember
10	Brief how you makes a policy statement effective.	BT-4	Analyze
11	Who should write the policy?	BT-5	Application
12	List out the target objective of OHSAS 18001.	BT-6	Analyze
13	How can the policy be incorporated into regular workplace duties and actions?	BT-1	Understand
14	List out the type of issues should the OHS policy statement cover?	BT-2	Analyze
15	Discuss about a health and safety action plan.	BT-3	Application
16	Write about the process OHS Policies.	BT-4	Evaluate
17	Discuss about the goal, objective and target of OHSAS 18001.	BT-1	Analyze
18	List out 5 Steps of a Safety Action Plan.	BT-2	Remember
19	How having a policy and program can help your business.	BT-1	Evaluate
20	List out any 4 benefits of an occupational health and safety management system.	BT-1	Understand

PART B (13 Marks)			
1	Explain benefits of an OHS management system.	BT-1	Remembering
2	Discuss in detail about policy and its needs.	BT-2	Understanding
3	Elaborate about cost of each option.	BT-3	Applying
4	Write about the objectives of OHSAS 18001.	BT-4	Analyzing
5	Write in detail compliance – methodology.	BT-5	Evaluating
6	Interpret type and issues in the OHS policy .	BT-6	Creating
7	Explain advantages of an occupational health and safety management system.	BT-1	Remembering
8	Discuss about basic fundamentals OHSAS 18001.	BT-2	Understanding
9	Brief in detail about target OHSAS 18001.	BT-3	Applying
10	How HSE policy and plan are different?	BT-4	Analyzing
11	Explain 5 Steps To Implement a Safety Action Plan.	BT-1	Application
12	Discuss about principles OHSAS.	BT-2	Understand
13	Write brief about Analysis and identify the priorities.	BT-1	Application
14	Explain in detail about draft a safety policy and health policy.	BT-1	Application
PART C (15 Marks)			
1	Discuss in detail about short term action plan OHSAS with Example.	BT-1	Remember
2	How do you assess OHSAS planning and its guidelines.	BT-2	Understanding
3	Discuss about the strategy and planning OHSAS.	BT-4	Analyzing
4	Explain in detail about OHSAS policy developments and its procedure.	BT-1	Remember



UNIT III - IMPLEMENTATION AND OPERATION, CHECKING AND REVIEW

Guidelines for structure and Responsibilities, Top Management, middle level management, co-ordinator and employees - Developing procedures, identifying training needs, providing training, documentation of training, Training methodology consultation and communications. Checking and Review; performance measurement and monitoring, Proactive and Reactive monitoring, measurement techniques, inspections, measuring equipment - Accidents reports, Process and procedures, recording, investigation corrective action and follow up - records and records management. Handling documentation, information, records.

PART A (2 Marks)

1	Describe internal Audit.	BT-1	Understand
2	Brief about Corrective actions.	BT-2	Remember
3	How Create a culture of continual improvement in implement OHSAS 18001.	BT-3	Analyze
4	Discuss About Implementation and Operation.	BT-4	Remember
5	Quote the implementation management.	BT-5	Understand
6	Brief the roles of operational management.	BT-6	Understand
7	Classify the role of top management?	BT-1	Application
8	Discuss about Implementation and Operation	BT-2	Remember
9	List out the role of middle management in the implementation of total quality.	BT-3	Remember
10	Write down the steps of corrective action.	BT-4	Analyze
11	How training needs are identified?	BT-5	Application
12	Elaborate about implementation coordinator.	BT-6	Analyze
13	List out the first step in the implementation process	BT-1	Understand
14	What are the different types of training needs analysis?	BT-2	Analyze
15	Outline the concept of implement a successful strategy.	BT-3	Application
16	List out the stages of implementation.	BT-4	Evaluate
17	Elaborate the role of an operations coordinator.	BT-1	Analyze
18	What are implementation skills in operation ?	BT-2	Remember
19	Mention few implementation skills.	BT-1	Evaluate
20	How do you implement a new procedure?	BT-1	Understand

PART B (13 Marks)			
1	How to determine training needs? Explain in detail.	BT-1	Remembering
2	Elaborate Training and professional development.	BT-2	Understanding
3	Explain the steps for effective accident Investigation.	BT-3	Applying
4	What critical safety and health issues should be addressed, and allocated adequate resources, in the safety and health policy?	BT-4	Analyzing
5	Discuss in detail about Benefits of Records Management.	BT-5	Evaluating
6	Explain Preparation of operational documentation.	BT-6	Creating
7	What are the Issues in monitoring and measuring a process?	BT-1	Remembering
8	Explain the Standard Operating Procedures: Developing and Implementing.	BT-2	Understanding
9	Explain Preparation of operational documentation.	BT-3	Applying
10	Discuss about monitoring and performance review.	BT-4	Analyzing
11	How to Analyze the monitor workplace operations?	BT-1	Application
12	Elaborate Proactive Vs Reactive Health And Safety Management.	BT-2	Understand
13	Explain in detail about Process Documentation.	BT-1	Application
14	Discuss Steps for Writing an Effective Accident Report.	BT-1	Application
PART C (15 Marks)			
1	State and explain the types of methods used to measure performance.	BT-1	Remember
2	Elaborate Steps For An Effective Records Management.	BT-2	Understanding
3	How will you Developing Effective Policy, Procedures and Standards	BT-4	Analyzing
4	Explain the implementation of measurement system analysis for assessment of machine and part variations in turning operation	BT-1	Remember

UNIT IV - ISO 14001

EMS, ISO 14001, specifications, objectives, Environmental Policy, Guidelines and Principles (ISO 14004), clauses 4.1 to 4.5. Documentation requirements, 3 levels of documentation for an ISO 14000 based EMS, steps in ISO 14001. Implementation plan, Registration, Importance of ISO 14000 to the Management. Auditing ISO14000- General principles of Environmental Audit, Auditor, steps in audit, Audit plan.

PART A (2 Marks)

1	Examine is environmental management system ISO 14001.	BT-1	Understand
2	Define EMS procedures.	BT-2	Remember
3	What is the ISO 14001 standard?	BT-3	Analyze
4	Discuss about legal requirements for ISO 14001.	BT-4	Remember
5	List out the principles of the ISO 14001.	BT-5	Understand
6	Discuss concept of environmental management.	BT-6	Understand
7	List out the steps in ISO 14001.	BT-1	Application
8	Give some importance of environmental management system.	BT-2	Remember
9	Illustrate difference between ISO 14000 and 1400.	BT-3	Remember
10	What is an environmental audit?	BT-4	Analyze
11	Discuss about the objective of environmental management.	BT-5	Application
12	Explain procedures for Implement EMS.	BT-6	Analyze
13	List out few benefits of ISO 14001.	BT-1	Understand
14	Discuss the three components of environmental management.	BT-2	Analyze
15	Provide short notes on ISO 14001 audit.	BT-3	Application
16	What is the aim of an ISO 14001 environmental management system?	BT-4	Evaluate
17	Describe the types of environmental management.	BT-1	Analyze
18	Name some levels of documentation for an ISO 14000 based EMS.	BT-2	Remember
19	List out any four Steps to ISO 14001 Certification.	BT-1	Evaluate
20	Examine the purpose of ISO 14001.	BT-1	Understand

PART B (13 Marks)			
1	Who should complete an environmental audit? explain in detail.	BT-1	Remembering
2	Discuss The Benefits of ISO 14000 certification.	BT-2	Understanding
3	Write in detail about Other issues of. ISO 14000.	BT-3	Applying
4	Explain the Environmental Policy of the EMS ISO 14001:2015.	BT-4	Analyzing
5	Elaborate 4.2.3 Control of documents ISO 9001 requirement.	BT-5	Evaluating
6	Discuss in detail about steps for ISO 14001 Certification.	BT-6	Creating
7	Write in detail about Costs of ISO 14000 certification.	BT-1	Remembering
8	Brief about Internal Audits in the EMS and its Five Main Steps.	BT-2	Understanding
9	Discuss in detail ISO 9001-Clause 4.1.	BT-3	Applying
10	List out Top tips for implementing ISO 14001 in detail.	BT-4	Analyzing
11	Explain in detail Purposes and Advantages of the ISO 14001 Audit.	BT-1	Application
12	Discuss about Clause 5.2: Environmental policy.	BT-2	Understand
13	What is ISO 14004:2016? Explain in detail.	BT-1	Application
14	List out in detail about 4.2 Documentation requirements.	BT-1	Application
PART C (15 Marks)			
1	Write your understanding about on ISO 14000 based EMS and how you will evaluate.	BT-1	Remember
2	Give a detailed report on Audit plan.	BT-2	Understanding
3	Give your suggestions for improving Auditing ISO14000.	BT-4	Analyzing
4	Elaborate specifications of ISO 14001.	BT-1	Remember

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UNIT V- ENVIRONMENT IMPACT ASSESSMENT

ISO 14040(LCA), General principles of LCA, Stages of LCA, Report and Review. ISO 14020 (Eco labeling) – History, 14021, 14024, Type I labels, Type II labels, ISO 14024, principles, rules for eco labeling before company attempts for it. Advantages. EIA in EMS, Types of EIA, EIA methodology EIS, Scope, Benefits. Audit-methodology, Auditors Audit results management review-Continual improvement.

PART A (2 Marks)

1	Examine is iso14040.	BT-1	Understand
2	Discuss about the three types of ISO 14020 Environmental labels.	BT-2	Remember
3	Why is eco Labeling important?	BT-3	Analyze
4	How do you analyze LCA and interpretation.	BT-4	Remember
5	Discuss about environmental Labeling.	BT-5	Understand
6	Explain ISO 14021.	BT-6	Understand
7	What are the 4 stages of LCA?	BT-1	Application
8	How is lifecycle assessment valuable?	BT-2	Remember
9	State the EIA Stands for and its meanings?	BT-3	Remember
10	List out is a functional unit in LCA.	BT-4	Analyze
11	Outline the concept of ISO 14024 .	BT-5	Application
12	Show the difference between EIA and EMP.	BT-6	Analyze
13	Does LCA important?.	BT-1	Understand
14	Give some two benefits of becoming eco certified?	BT-2	Analyze
15	Brief about LCA report.	BT-3	Application
16	Why EMS is required?	BT-4	Evaluate
17	Brief out first stage of EMS process.	BT-1	Analyze
18	What is the difference between QMS and EMS?	BT-2	Remember
19	Which EMS model is most well known?	BT-1	Evaluate
20	What is eco certified?	BT-1	Understand

PART B (13 Marks)

1	Explain in detail about life cycle assessment.	BT-1	Remembering
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2	Elaborate the different types of eco labels .	BT-2	Understanding
3	Discuss in detail about LCA Methodology and 4 Stages of Life Cycle Assessment.	BT-3	Applying
4	Explain in detail about EIA process.	BT-4	Analyzing
5	Can you explain Monitoring and Post-auditing in Environmental Impact Assessment.	BT-5	Evaluating
6	Discuss Economic Analysis of Eco labels.	BT-6	Creating
7	Explain in detail EIA Auditing Process	BT-1	Remembering
8	Elaborate Eco label and its Innovation Life Cycle	BT-2	Understanding
9	Discuss in detail about EMS and its Process	BT-3	Applying
10	Express your views on approach to LCA has been formalised in ISO norms 14040/44.	BT-4	Analyzing
11	List out The most common the advantages and disadvantages of eco labels.	BT-1	Application
12	Explain Semi Type I Eco label	BT-2	Understand
13	Write brief about iso14024	BT-1	Application
14	What is EIA & EMS and its Difference?	BT-1	Application
PART – C (15 Marks)			
1	Explain in detail about ISO 14040(LCA).	BT-1	Remember
2	Elaborate Type II labels ,and ISO 14024.	BT-2	Understanding
3	Analyze detail about Audit-methodology	BT-4	Analyzing
4	Give your views on Stages of LCA and its report .	BT-1	Remember

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