**MSCIDS - January 2025**

# ASSIGNMENT BOOKLET

## MASTER OF SCIENCE (INDUSTRIAL SAFETY)
## (MSCIDS)

## SECOND SEMESTER

**Last date for submission:**

**30th April for January 2025 Session**

**School of Engineering and Technology**
**Indira Gandhi National Open University**
**Maidan Garhi, New Delhi-110068**

Dear Student,

We advise you to go through your course material carefully and read all the sections pertaining to assignments. As you are aware, a weightage of 30 per cent of marks, has been earmarked for continuous evaluation which would consist of **one tutor-marked assignment** for each of MIS-025, MIS-026, MEV-001, MEV-002 and MEV-005 courses. You have to score a minimum of 40 marks out of 100 marks in each of the assignment. **Submit your assignments at your respective Regional Centre. Any Queries related to Assignments send strictly to the email ID: mscids@ignou.ac.in**

## Instructions for Formatting Your Assignments

Before attempting the assignment, please read the following instructions carefully.

1) On top of the first page of your TMA answer sheet, please write the details exactly in the following format:

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**ENROLLMENT NO:** ……

**NAME:** ……

**ADDRESS:** ……

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**E-mail ID** : ……

**COURSECODE:** ……..

**COURSETITLE:** ……..

**PROGRAMME :** ……..…

**STUDYCENTRE:** ……...….... **DATE:**……..……....

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**PLEASE FOLLOW THE ABOVE FORMAT STRICTLY TO FACILITATE EVALUATION AND TO AVOID DELAY.**

2) Use only full size writing paper (but not of very thin variety) for writing your answers.

3) Leave a 2 cm margin on the left, top and bottom of your answer sheet.

4) Your answers should be precise.

5) **Only hand written answers are acceptable. Do not submit typed or photocopied answers.**

6) While solving problems, clearly indicate the question number along with the part being solved. Be precise. Recheck your work before submitting it.

Answer sheets received after the due date shall not be accepted.

**We strongly feel that you should retain a copy of your assignment response to avoid any unforeseen situations and append, if possible, a photocopy of assignment questions with your response.**

We wish you good luck.

**Assignment -1**
(To be done **after** studying the course material)

**Course Code: MIS-025**
**Course Title: Industrial Project Management & Control Strategies**
**Assignment Code: MIS-025/TMA/2024**
**Maximum Marks: 100**
**Last Date of Submission: April 30, 2025**

**Note: Attempt all questions. All questions carry equal marks.**

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|---|---|---|
| Q.1 | What do you understand by Organizational culture and Organizational climate? Discuss the elements of organizational structure. | 10 |
| Q.2 | Explain and relate responsibility, accountability and authority with suitable examples. | 10 |
| Q.3 | Define value. How does it differ from cost? Describe 7-phases of value engineering job plan. | 10 |
| Q.4 | What is ISO 9000? What benefits Indian industries can derive after getting ISO certification? | 10 |
| Q.5 | Enumerate the principles of Scientific Management proposed by Taylor. What were the main criticisms of this thought of management? How, in your opinion, can the Human Relations Approach overcome these problems? | 10 |
| Q.6 | What is coordination? What are its benefits? How is vertical coordination achieved in an organization? Discuss. | 10 |
| Q.7 | What is a Detailed Project Report (DPR)? What are the documents and data necessary for its preparation? How does it differ from Techno-economic Feasibility Report? | 10 |
| Q.8 | What do you understand by the concept "Sustainable Development" and "Environmental Impact Assessment"? Discuss the five basic contents of EIA. | 10 |
| Q.9 | Explain various types of price elasticity. What are the factors which govern the price elasticity of demand? | 10 |
| Q.10 | What is "Power"? How is it different from "Authority"? What is meant by "Dynamics of Power"? Explain in detail. | 10 |

**Assignment -2**
(To be done **after** studying the course material)

**Course Code: MIS-026**
**Course Title: Communication Skills for Industrial Safety**
**Assignment Code: MIS-026/TMA/2024**
**Maximum Marks: 100**
**Last Date of Submission: April 30, 2025**

**Note: Attempt all questions. All questions carry equal marks.**

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| Q.1 | a) What is communication? What is the need of communication? List its benefits. | 5 |
| | b) Explain the communication process with a suitable diagram. | 5 |
| Q.2 | a) Explain the conditions under which managers may have to make decisions. | 5 |
| | b) Discuss the advantages and limitations of Group Decision Making. | 5 |
| Q.3 | a) What is ICT? What are the components of ICT? List out its applications. | 5 |
| | b) What are the stages of Technical Writing? Explain. | 5 |
| Q.4 | a) Explain the importance of communication for safety personnel. | 5 |
| | b) Describe the ways to promote workplace safety through communication. | 5 |
| Q.5 | a) How do you write technical article? Describe the proper structure of the article. | 5 |
| | b) What is tender? How do you prepare notification for tender? | 5 |
| Q.6 | a) Discuss the characteristics of attitude. | 5 |
| | b) Describe the factors affecting attitude. | 5 |
| Q.7 | a) What is Team Work? What are the roles and responsibilities in a team? Discuss. | 5 |
| | b) What is Leadership? Explain the various types of Leadership Theories. | 5 |
| Q.8 | Discuss the conflict management approaches in detail. | 10 |
| Q.9 | a) What is the importance of writing skills? List out the various common mistakes that arise while writing? | 5 |
| | b) How do you prepare for an oral presentation? List out the various tools | 5 |

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| | required for presentation. | |
| Q.10 | Write short notes on the following:<br>(i) Characteristics of decision making<br>(ii) Difference between emotions and mood<br>(iii) Process of listening<br>(iv) Common mistakes made by writers | 10 |

**Assignment -3**
(To be done **after** studying the course material)

**Course Code: MEV-001**
**Course Title: Introduction to Environmental Health**
**Assignment Code: MEV-001/TMA/2024**
**Maximum Marks: 100**
**Last Date of Submission: April 30, 2025**

**Note: Attempt all questions. All questions carry equal marks.**

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| Q.1 | What are the human dimensions of global environmental changes? Explain about environmental sustainability. | 10 |
| Q.2 | What are the major functions of ecosystem? | 10 |
| Q.3 | What is meant by atmospheric effect and the reactions that occur in the atmosphere? | 10 |
| Q.4 | Explain various types of air pollutants, their sources and effects. | 10 |
| Q.5 | How the agriculture, industrial, urban and nuclear waste can contribute to the soil pollution? | 10 |
| Q.6 | Explain environmental water monitoring system with suitable examples. | 10 |
| Q.7 | Explain about radiation pollution and nuclear hazards in detail. What are their controlling measures and safety regulations? | 10 |
| Q.8 | What is the significance of energy flow in ecosystem? Explain. | 10 |
| Q.9 | Explain the causes of environmental degradation & how human health is affected by this. | 10 |
| Q.10 | Describe the health impacts of particulate matter and their precautionary measures. | 10 |

**Assignment -4**

(To be done **after** studying the course material)

**Course Code: MEV-002**
**Course Title: Environmental and Occupational Hazards**
**Assignment Code: MEV-002/TMA/2024**
**Maximum Marks: 100**
**Last Date of Submission: April 30, 2025**

**Note: Attempt all questions. All questions carry equal marks.**

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| Q.1 | Classify various types of chemical hazards with suitable examples. | 10 |
| Q.2 | Describe the causes of drought. | 10 |
| Q.3 | Explain the various psycho-social and ergonomic hazards faced in the health sector. | 10 |
| Q.4 | Differentiate hazard and disaster. Classify the various types of chemical hazards with suitable examples. | 10 |
| Q.5 | Describe the causes, types, and impacts of Tsunamis and earthquakes. | 10 |
| Q.6 | Describe the various health hazards faced by employees in the agricultural sector. | 10 |
| Q.7 | What are landslides? Describe the causes of landslides. | 10 |
| Q.8 | Write short notes on:<br>a) Bioterrorism<br>b) Biological hazards. | 10 |
| Q.9 | Describe the causes and effects of tropical cyclones. | 10 |
| Q.10 | What is hazard assessment? What are the steps involved in hazard assessment? Illustrate the application of GIS and Remote Sensing in disaster management. | 5+5 |

**Assignment -5**
(To be done **after** studying the course material)

**Course Code: MEV-005**
**Course Title: Occupational Health and Safety**
**Assignment Code: MEV-005/TMA/2024**
**Maximum Marks: 100**
**Last Date of Submission: April 30, 2025**

**Note: Attempt all questions. All questions carry equal marks.**

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| Q.1 | Define health. Describe the impact of environmental hazards on human health. | 10 |
| Q.2 | (i) Define accidents. List and explain the preventive measures for accidents and industrial hazards.<br>(ii) Describe the steps of cardio pulmonary resuscitation. | 10 |
| Q.3 | Differentiate between case control and Cohort Study with suitable example. | 10 |
| Q.4 | Discuss the occupational hazards and risk of migrant workers. | 10 |
| Q.5 | Define prevention. Discuss the levels of prevention. Explain in brief intervention under the three levels of prevention with examples. | 10 |
| Q.6 | Describe the elements and forms of participation. Explain in details the hierarchy of controls with examples. | 10 |
| Q.7 | Define occupational hazards. Discuss physical hazards and its impact on health. | 10 |
| Q.8 | Discuss the steps in recording and notification of occupational diseases. | 10 |
| Q.9 | Discuss the occupational health hazards in repetitive tasks. | 10 |
| Q.10 | Explain Wallace's Rule of Nines. Explain the immediate steps of managing burns by fires and the first aid for skin burns. | 10 |