

**ASSIGNMENT BOOKLET**

**POST GRADUATE CERTIFICATE IN INDUSTRIAL SAFETY  
(PGCINDS)**

**Last date for submission:**

**30<sup>th</sup> October for July 2026 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 MIS021, MIS022, MIS023 & MIS024 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: [pgdinds@ignou.ac.in](mailto:pgdinds@ignou.ac.in)**

### Instructions for Submitting 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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**ENROLMENT NO:** .....

**NAME:** .....

**ADDRESS:** .....

.....

**Email ID :** .....

**COURSECODE:** .....

**COURSE TITLE:** .....

**PROGRAMME:** .....

**STUDY CENTRE:** ..... **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 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.
- 7) **You must attach copy of your Student Id Card with your assignments.**

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 this booklet with your response.**

We wish you good luck.

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

**Course Code: MIS-023**  
**Course Title: Safety in Construction Industry**  
**Assignment Code: MIS-023/TMA/2026**  
**Maximum Marks: 100**  
**Last Date of Submission: October 30, 2026**

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

|      |                                                                                                                                                                                                        |     |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Q.1  | a) Discuss the major hazards associated with construction activities.<br>b) Discuss various accident prevention techniques.                                                                            | 10  |
| Q.2  | Explain the importance of safety management in the construction industry. Discuss the roles and responsibilities of the employer, supervisor, and workers in maintaining a safe workplace.             | 10  |
| Q.3  | Describe various Personal Protective Equipment and their role in safeguarding the workers at site.                                                                                                     | 10  |
| Q.4  | Describe the safety precautions to be followed while carrying out excavation work. Discuss the common causes of excavation failures and methods for their prevention.                                  | 10  |
| Q.5  | a) Explain the hazards associated with working at heights and discuss suitable preventive measures.<br>b) Discuss the safety requirements for the erection, inspection, and dismantling of scaffolds.  | 5+5 |
| Q.6  | a) What safety measures should employers take regarding use of conveyors?<br>b) Explain the causes of crane accidents and suggest methods to prevent them.                                             | 5+5 |
| Q.7  | a) What is the need of safety training? Explain the purpose of identification of training needs<br>b) Discuss various type of training that are given to the employees.                                | 10  |
| Q.8  | a) Explain ergonomics of material handling. What precautions should be taken while manual material handling.<br>b) What safeguards workers should take while stacking materials.                       | 10  |
| Q.9  | a) Discuss safe practices to be followed during demolition work.<br>b) Explain the environmental management measures for controlling dust, noise, vibration, and construction waste at project sites.  | 5+5 |
| Q.10 | Discuss a real-life case study of a construction accident <b>other than those given in the study material</b> . Your answer should include the following aspects:<br><br>i. Background of the incident | 10  |

|  |                                                                                                                                                                                                                                                                      |  |
|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|  | <p>ii. Causes of the accident</p> <p>iii. Consequences (loss of life, injuries, property damage, environmental impact)</p> <p>iv. Corrective actions taken after the accident</p> <p>v. Preventive measures and lessons learned for future construction projects</p> |  |
|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|