PGCINDS-January 2026

ASSIGNMENT BOOKLET

POST GRADUATE CERTIFICATE IN INDUSTRIAL SAFETY (PGCINDS)

Last date for submission:

30th April for January 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**

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:

ENROLMENT NO: ……

NAME: ……

ADDRESS: ……

……

Email ID : ……

COURSECODE: …….

COURSETITLE: …….

PROGRAMME: ----------

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

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.

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: April 30, 2026

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

Q.1	a) Explain the regulatory framework governing safety in the construction industry in India. b) Describe the project-related factors that influence safety on construction sites.	10
Q.2	a) What is meant by unsafe acts and unsafe conditions? Give examples from the construction industry. b) Explain the principles that should be followed while framing a health and safety management system.	10
Q.3	a) Compare and contrast the multiple causation theory and energy transfer theory of accident causation. b) What is ergonomics? How is it helpful in avoiding musculo-skeletal injury during manual material handling. Give suitable examples to support your answer.	5
Q.4	a) Describe the common causes and consequences of ill health in the construction industry. b) Discuss the benefits of implementing accident prevention measures at construction sites.	10
Q.5	a) Define PPE. Explain the selection and uses of PPE for different hazards. b) Discuss the employer's obligations related to construction safety.	5
Q.6	a) What are the safety precautions required during demolition work? b) Explain various hazards associated with excavation and methods to mitigate them.	5
Q.7	a) Write short notes on: i. Scaffolding safety provisions ii. Ladder work safety b) Explain safe practices for handling and storage of construction materials.	10
Q.8	a) Discuss the potential environmental risks due to construction activities. b) Explain the principles and components of a segmental environmental control plan.	10
Q.9	a) Describe the steps of environmental risk assessment for construction sites.	5

	b) Discuss various methods of dust and noise control in construction projects.	
Q.10	Case Study: Discuss a case of a construction site accident (not given in the study material). Description of the incident should include the following details: i. Type and cause of accident ii. Environmental and human consequences iii. Corrective measures implemented iv. Preventive actions that could have avoided the accident	10