

**PGCINDS- 2021**

**ASSIGNMENT BOOKLET**

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

**Last date for submission:**

**31<sup>st</sup> March for January 2022 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 section pertaining to assignments. A weightage of 30 per cent, as you are aware, has been remarked for continuous evaluation which would consist of **one tutor-marked assignment** for each of MIS-021, MIS-022, MIS-023 and MIS-024 of this course. You have to score a minimum of 40 marks out of 100 marks in each of the assignments. **Submit your assignment response at Programme Coordinator (PGCINDS), Block-C, School of Engineering & Technology, Indira Gandhi National Open University, Maidan Garhi, New Delhi - 110068**

A feedback form is enclosed with this assignment. Please complete it after solving this assignment and send it to the Course Coordinator (PGCINDS) on the address specified on the feedback form.

### 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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**ENROLMENT NO:** .....

**NAME:** .....

**ADDRESS:** .....

.....

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**COURSE CODE:** .....

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

**ASSIGNMENT NO.:** .....

**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 4 cm margin on the left, top and bottom of your answer sheet.
- 4) Your answers should be precise.
- 5) 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 situation and append, if possible, a photocopy of this booklet with your response.**

We wish you good luck.

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

**Course Code: MIS-023**  
**Course Title: Safety in Construction Industry**  
**Assignment Code: MIS-023/TMA/2022**  
**Maximum Marks: 100**  
**Last Date of Submission: \_\_\_\_\_**

**Note:**

- 1. For any question worth 5 marks the word limit is 200 words, for a 10 mark question it is 350 words.**
  - 2. All questions are compulsory. All questions carry equal marks.**
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Q.1	a)	What do you mean by safety? Discuss the need of safety in construction.	5
	b)	Describe the most causes of accidents.	5
Q.2		Enlist various accident causation theories. Discuss any three in detail.	10
Q.3		Describe the various accident prevention techniques in construction with suitable examples.	10
Q.4	a)	What precautions should be taken to avoid accidents during tunneling operations?	5
	b)	What is ventilation? Discuss different types of ventilation in tunnels.	5
Q.5	a)	Describe various methods for controlling dust at a construction site.	5
	b)	Discuss different safety aspects to be followed in underground projects.	5
Q.6	a)	Describe different types of ladders in brief. Enlist the common causes of ladder accidents.	5
	b)	Describe different types of scaffolds and the safety aspects related to each in brief.	5
Q.7	a)	What is need of safety training? Describe various components of training.	5
	b)	Describe various types of training. Discuss the essentials of good training.	5
Q.8		Discuss different types of pollution at a construction site.	10
Q.9	a)	Describe the risk management process in detail.	5
	b)	What are the precaution which may be considered before and during demolition.	5
Q.10		Discuss a case study on accident in construction. The case study should be different from other than given in course material. Analyze the following elated to the accident: 1. Cause of accident 2. Preventive measures that could have avoided in accident 3. Description of losses/damages in accident 4. Remedial measures taken	10