

PGCINDS- 2021

ASSIGNMENT BOOKLET

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

Last date for submission:

30th October for July 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 earmarked 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:

ENROLMENT NO:

NAME:

ADDRESS:

.....

.....

COURSE CODE:

COURSE TITLE:

ASSIGNMENT NO.:

STUDY CENTRE: **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 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 -3

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

Course Code: MIS-023

Course Title: Safety in Construction Industry

Assignment Code: MIS-023/TMA/2021

Maximum Marks: 100

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) | Explain different accident prevention techniques in the construction industry. | 5 |
| | b) | Enlist the different reasons of accident at construction site in India. | 5 |
| Q.2 | a) | What are the major areas of consideration to be included in training programme for employees to be engaged in underground construction works? | 5 |
| | b) | Describe any method for tunnel construction. | 5 |
| Q.3 | a) | What are the safety aspects to be followed in underground projects? | 5 |
| | b) | Explain the following:
(i) Single pole scaffold
(ii) Independent scaffold | 5 |
| Q.4 | a) | What are the different lifting machineries used on a construction site? | 5 |
| | b) | Explain safety measures while using pulleys. | 5 |
| Q.5 | | Explain different safety measures to be taken by employer regarding conveyors and cranes. | 10 |
| Q.6 | a) | Explain different sources of air and noise pollution at construction sites. | 5 |
| | b) | How soil erosion can be minimized? Explain in brief. | 5 |
| Q.7 | | Explain hazards and risks in demolition works in detail. | 10 |
| Q.8 | | Explain the following:
(i). Training for personal safety
(ii). Training for equipment safety
(iii). Training for environment safety | 10 |
| Q.9 | | Explain different safety precautions taken by employers and workers when operating or maintaining on following:
(i). Powered industrial trucks
(ii). Slings | 10 |

- 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 related to the accident: 10
1. Cause of accident
 2. Preventive measures that could have avoided in accident
 3. Description of losses/damages in accident
 4. Remedial measures taken