

**PGCINDS- 2021**

**ASSIGNMENT BOOKLET**

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

**Last date for submission:**

**30<sup>th</sup> 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:

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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 -4

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

Course Code: MIS-024

Course Title: Mechanical and Electrical safety

Assignment Code: MIS-024/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) What are the criteria for selection of job safety analysis in industry?	5
	b) Discuss the criteria to identify hazards in the work place?	5
Q.2	Explain various types of machine safeguarding devices in machinery.	10
Q.3	a) What are main aims and various advantages of correct material handling in industry?	5
	b) Write down different risk factors associated with manual handling and how it can be avoided.	5
Q.4	a) What are the main possible failures in a abrasive wheel?	5
	b) How Kick Back problem associated with manufacturing of timber products is avoided?	5
Q.5	Discuss the primary causes of electrical hazards. How it can be avoided?	10
Q.6	a) Write down the importance of fuse in electrical equipments and how does it work?	5
	b) What is the reason of electric shock and what are the different effects of electric shock?	5
Q.7	Explain the role of earth leakage protective device and earthing in electrical safety concern.	10
Q.8	What are the main precautions carried out at the time of work at high voltage lines?	10
Q.9	What are the attributes of a First Aid Provider? Explain CPR process in brief.	10
Q.10	a) What is the purpose of First Aid in Education and Training?	5
	b) Write down the various steps taken during first aid of poisoning by ingestion case accident in plant.	5