
PGCINDS- 2022

ASSIGNMENT BOOKLET

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

Last date for submission:

31st 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:

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

Course Code: MIS-024
Course Title: Mechanical and Electrical Safety Management
Assignment Code: MIS-024/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)	Discuss the various responsibilities of an employee in ensuring safeguarding of machines.	5
	b)	What are the different categories of hazardous action? Explain.	5
Q.2		Explain the principle of material handling in detail.	10
Q.3		Classified Mechanical Material Handling Equipment (MMHE) in detail.	10
Q.4	a)	What is Safety Laws and role of Supervisor and training in the industrial safety?	5
	b)	Explain the importance of safety in lifting equipment.	5
Q.5	a)	Explain the rules to maintain the safety of workers working in the foundry.	5
	b)	What are the different factors causing accidents? Explain.	5
Q.6	a)	Explain the different electrical hazards in detail.	5
	b)	How the electrical accidents can be avoided? Explain.	5
Q.7	a)	Explain the Twenty One (21) Golden Safety Rules for safety of electrical equipment.	5
	b)	Explain the safety measure while working on megger and transformer.	5
Q.8	a)	What precautions should be taken for working at height?	5
	b)	What is the importance of earthing for any electrical equipment? Explain with example.	5
Q.9	a)	What is electric shock? What are the different parameter on which electric shock depend?	5
	b)	Explain Cardio-pulmonary Resuscitation (CPR) in detail.	5
Q.10		Discuss a case study on accident in any industry in terms of cause of accident, preventive measures, damages in accident and steps taken to avoid such cases.	10