

**Assignment**  
**Post Graduate Diploma in Industrial Safety Management**  
**(PGDISM)**  
**(Through Distance Education)**

**Session: 2015-16**



**Directorate of Distance Education**  
**Guru Jambheshwar University of Science & Technology**  
**Hisar**

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## **Assignment-I**

**(15 Marks)**

**Course: Principles of Industrial Safety**

**Code: PGDISM-01**

### **Important Instructions**

Attempt all questions from the assignment given below. All questions are to be attempted in legible handwriting on plane white A 4 size papers and handed over for evaluation to the study centres concerned. Each question carries 5 marks and the total marks are 15.

1. Define industrial safety and its dimensions. Illustrate the nature and types of industrial safety.
2. Elaborate the safety movements in Europe and USA. How these have affected the industrial safety movement in India?
3. What is ergonomics? Explain the objectives, importance and scope of ergonomics in safety management.

## **Assignment-II**

**(15 Marks)**

**Course: Principles of Industrial Safety**

**Code: PGDISM-01**

### **Important Instructions**

Attempt all questions from the assignment given below. All questions are to be attempted in legible handwriting on plane white A 4 size papers and handed over for evaluation to the study centres concerned. Each question carries 5 marks and the total marks are 15.

1. Why is industrial safety important for today? Illustrate its relevance in manufacturing industry.
2. How ergonomics affects the performance of employees? Illustrate.
3. Explain various principles of industrial safety management. .

**Assignment-I (15 Marks)**

**Course: Industrial Toxicology, Environmental Pollution and Occupational Health**  
**Code: PGDISM-02**

**Important Instructions**

Attempt all questions from the assignment given below. All questions are to be attempted in legible handwriting on plane white A 4 size papers and handed over for evaluation to the study centres concerned. Each question carries 5 marks and the total marks are 15.

1. What are the causes and signs of stress in occupation environment? Suggest the measures of prevention of stress at work.
2. Discuss the nature and types of industrial toxicology. Suggest some remedial measures for diseases caused by certain chemicals.
3. What do you mean by fatigue? What are the control and remedial measures for overcoming fatigue?

**Assignment-II (15 Marks)**

**Course: Industrial Toxicology, Environmental Pollution and Occupational Health**  
**Code: PGDISM-02**

**Important Instructions**

Attempt all questions from the assignment given below. All questions are to be attempted in legible handwriting on plane white A 4 size papers and handed over for evaluation to the study centres concerned. Each question carries 5 marks and the total marks are 15.

1. Briefly explain the concept of industrial toxicology. Discuss its relationship with occupational health.
2. What are occupational health problems? Outline the personal and medical control of occupational diseases.
3. Define loss control and explain the basic principles of loss control.

**Assignment-I (15 Marks)**

**Course: Industrial Hazards and Accidents** **Code: PGDISM-03**

### **Important Instructions**

Attempt all questions from the assignment given below. All questions are to be attempted in legible handwriting on plane white A 4 size papers and handed over for evaluation to the study centres concerned. Each question carries 5 marks and the total marks are 15.

1. Discuss the prevention measures related to housekeeping, working cloths and personal protective equipments.
2. Illustrate the preventions measures regarding machine guarding and fire explosions.
3. What would be done if (a) pressure vessel ruptures and (b) discharges from safety valves?

### **Assignment-II**

**(15 Marks)**

**Course: Industrial Hazards and Accidents**

**Code: PGDISM-03**

### **Important Instructions**

Attempt all questions from the assignment given below. All questions are to be attempted in legible handwriting on plane white A 4 size papers and handed over for evaluation to the study centres concerned. Each question carries 5 marks and the total marks are 15.

1. What is meant by industrial hazards and accidents? How can internal transport and safety be assured for prevention of industrial hazards? Explain.
2. What would be done if (a) over heating due to electric power and (b) flammable liquid fuels?
3. Write a note on the maintenance of personal protective equipments and their usage in controlling industrial accidents.

### **Assignment-I**

**(15 Marks)**

**Course: Safety Management and Organization**

**Code: PGDISM-04**

### **Important Instructions**

Attempt all questions from the assignment given below. All questions are to be attempted in legible handwriting on plane white A 4 size papers and handed over for evaluation to the study centres concerned. Each question carries 5 marks and the total marks are 15.

1. What are the responsibilities of plant managers, foremen and supervisors with regard to organization for safety management?
2. In a hypothetical organization, outline the steps to formulate planning for safety management.
3. Define industrial safety management. Discuss various approaches and principles of industrial safety management.

### **Assignment-II**

**Course: Safety Management and Organization**

**(15 Marks)**

**Code: PGDISM-04**

### **Important Instructions**

Attempt all questions from the assignment given below. All questions are to be attempted in legible handwriting on plane white A 4 size papers and handed over for evaluation to the study centres concerned. Each question carries 5 marks and the total marks are 15.

1. Define communication which method of communication is most effective and why in safety management.
2. How behavioral sciences and safety is connected? Explain.
3. What are the various theories of motivation? Discuss their relevance to the field of safety management.

**Assignment-I****(15 Marks)****Course: Safety Statistics and Accident Inspection****Code: PGDISM-05****Important Instructions**

Attempt all questions from the assignment given below. All questions are to be attempted in legible handwriting on plane white A 4 size papers and handed over for evaluation to the study centres concerned. Each question carries 5 marks and the total marks are 15.

1. Discuss the role, application and scope of statistics in safety management and accident inspection.
2. Elaborate the steps to calculate values central tendencies and standard deviation in general. Illustrate.
3. What is a hypothesis? Explain the relevance and importance of test of significance.

**Assignment-II****(15 Marks)****Course: Safety Statistics and Accident Inspection****Code: PGDISM-05****Important Instructions**

Attempt all questions from the assignment given below. All questions are to be attempted in legible handwriting on plane white A 4 size papers and handed over for evaluation to the study centres concerned. Each question carries 5 marks and the total marks are 15.

1. Explain various methods to calculate measures of central tendency? How it is important in computing the accidental losses?
2. Highlight the usage of correlation in safety management and accidents in industries.
3. What is the need of safety check list and safety permit system? Illustrate with real life case of a hypothetical organization.

**Assignment-I****(15 Marks)**

**Course: Safety Legislation, Codes and Workmen's Compensation Pertaining to Factories, Boilers and their Administration**

**Code: PGDISM-06**

**Important Instructions**

Attempt all questions from the assignment given below. All questions are to be attempted in legible handwriting on plane white A 4 size papers and handed over for evaluation to the study centres concerned. Each question carries 5 marks and the total marks are 15.

1. Discuss in short the safety provisions of Boiler Act, 1923.
2. Explain the role of Director General in administration for Factories Act, 1923.
3. Discuss the role ILO in promoting the uniform safety standards.

**Assignment-II (15 Marks)**

**Course: Safety Legislation, Codes and Workmen's Compensation Pertaining to Factories, Boilers and their Administration**

**Code: PGDISM-06**

**Important Instructions**

Attempt all questions from the assignment given below. All questions are to be attempted in legible handwriting on plane white A 4 size papers and handed over for evaluation to the study centres concerned. Each question carries 5 marks and the total marks are 15.

1. Discuss the role ILO in the field of safety promotion.
2. Discuss in short the provisions of Workmen's Compensation Act, 1923.
3. Critically appraise the rules and regulations related to safety in chemical industry.

**Assignment-I**

**(15 Marks)**

**Course: Computer Application in Safety Management**

**Code: PGDISM-07**

**Important Instructions**

Attempt all questions from the assignment given below. All questions are to be attempted in legible handwriting on plane white A 4 size papers and handed over for evaluation to the study centres concerned. Each question carries 5 marks and the total marks are 15.

1. Explain the role of computers in industrial safety. Illustrate with some real life examples from industry.
2. What is meant by a database? Explain the need and application of DBMS industrial safety.
3. Why feasibility studies are done in industrial safety? Discuss the types and role of feasibility studies for safety purpose.

**Assignment-II**

**(15 Marks)**

**Course: Computer Application in Safety Management**

**Code: PGDISM-07**

**Important Instructions**

Attempt all questions from the assignment given below. All questions are to be attempted in legible handwriting on plane white A 4 size papers and handed over for evaluation to the study centres concerned. Each question carries 5 marks and the total marks are 15.

1. What are the evolving methodologies for the analysis, design and development of a helpdesk system?
2. Define spread sheet. Write its application for the organizations for the purpose of managing data related to safety.
3. Illustrate the principles for preparing effective presentation with the help of computers. Also explain some software programmes for ensuring industrial safety in organisation.