

CP-8429

Sub. Code

11

**CRAFT CERTIFICATE COURSE EXAMINATION,  
NOVEMBER 2017.**

**Fire and Industrial Safety Management**

**SAFETY CONCEPTS**

**(Upto 2015 batch)**

Time : 3 Hours

Maximum : 75 Marks

**Part A**

(5 × 3 = 15)

Answer **all** questions.

1. Define Incident Recall Technique. Why it is necessary?
2. Define cost of accident.
3. Define incident rate.
4. What is the need for safety awards?
5. Define review of inspection.

**Part B**

(5 × 12 = 60)

Answer **all** questions.

6. (a) Discuss in detail about the history of safety movement.

Or

- (b) Write about the following :
  - (i) Budgeting for safety
  - (ii) Safety promotion
  - (iii) Safety committee.

7. (a) Discuss in detail the importance of accident investigation and analysis.

Or

- (b) What are the records to be maintained for the accidents?

8. (a) Explain the procedures involved in calculation of accident indices.

Or

- (b) Describe the significance of risk rating to prioritize accident prevention.

9. (a) List and discuss various methods of safety training.

Or

- (b) Write a note on the significance of seminars and conferences in safety training.

10. (a) Explain in detail the importance of safety audit in accident prevention.

Or

- (b) Prepare a checklist needed for the safety audit.
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**CRAFT CERTIFICATE COURSE EXAMINATION,  
NOVEMBER 2017**

**Fire and Industrial Safety Management**

**FIRE PREVENTION AND CONTROL**

**(upto 2015 batch)**

Time : 3 Hours

Maximum : 75 Marks

**Part A**

**(5 × 3 = 15)**

Answer **all** questions.

1. What do you mean by flash fire and jet fire?
2. Define fire triangle.
3. Explain fire fighting systems.
4. Distinguish between access and egress.
5. Write short note on inert gases.

**Part B**

**(5 × 12 = 60)**

Answer **all** questions.

6. (a) Explain the theory of combustion and explosion.

Or

- (b) Write about boiling liquid expanding vapor explosion and explain them with a case study.

7. (a) Explain about active and passive fire protection systems.

Or

- (b) Explain fire drill and write about fire rescue operations.

8. (a) Explain about the reliability, evaluation and standards of alarm and detection system.

Or

- (b) How do you select the installation of fire protection system? Explain any three.

9. (a) Explain the fire safety requirements for high rise building.

Or

- (b) Explain structural fire protection and structural integrity.

10. (a) Explain in detail about Indian explosive act and rules.

Or

- (b) Explain in detail about Static and Mobile Pressure Vessel (SMPV) Rules.

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**CRAFT CERTIFICATE COURSE EXAMINATION,  
NOVEMBER 2017**

**Fire and Industrial Safety Management**

**CONSTRUCTIONAL SAFETY**

**(Upto 2015 Batch)**

Time : 3 Hours

Maximum : 75 Marks

**Part A**

(5 × 3 = 15)

Answer **all** questions.

1. What are the causes of fatal accidents?
2. What do you mean by blasting?
3. Explain the functions of Safety belts and Safety nets.
4. Mention the uses of concrete vibrators.
5. Write short notes on Girders and Beams.

**Part B**

(5 × 12 = 60)

Answer **all** questions.

6. (a) Explain in detail about the constructional safety regulations.

Or

- (b) Discuss about the recording of accidents and safety measures.

7. (a) Describe the procedure for erection of structural frame work.

Or

- (b) Write short notes on :
- (i) Working in Contaminated sites.
  - (ii) Work over Water.

8. (a) What are the requirements for a safe work platform?

Or

- (b) Explain in detail about fall protection and fall prevention.

9. (a) Explain in detail about the steps involved in using hoisting cranes.

Or

- (b) Explain briefly any Twenty hazards in constructional industry.

10. (a) Explain in detail about the safety in demolition work by manual and mechanical methods.

Or

- (b) Write in detail about the interesting experience at the construction site against the fire accidents.

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**CRAFT CERTIFICATE COURSE IN FIRE AND  
INDUSTRIAL SAFETY MANAGEMENT EXAMINATION,  
NOVEMBER 2017**

**ELECTRICAL SAFETY**

**(Upto 2015 batch)**

Time : 3 Hours

Maximum : 75 Marks

**Part A**

(5 × 3 = 15)

Answer **all** questions.

1. What is Circuit Broken? What are the types and uses?
2. Define “Intrinsically Safe” in details.
3. What are PPE’s used in Electrical Safety?
4. Explain the primary and Secondary hazards of Shocks.
5. What are the First – Aid measures of Electric shock and Burn?

**Part B**

(5 × 12 = 60)

Answer **all** questions.

6. (a) Define the National Electric code and its features.

Or

- (b) Define ANSI, how to promote the ANSI norms in Industries.

7. (a) What are the classes of Insulation and Voltage Classification?

Or

- (b) Define
- (i) Explosive proof
  - (ii) ELCB
  - (iii) FRLS
  - (iv) Intrinsically Safe.

8. (a) Imagine yourself as safety officer for a Electrical product manufacture and explain your roles.

Or

- (b) Essay on Electrical Safety and control measures in detailed manner.

9. (a) Explain the Energy radiation and Electromagnetic Interface.

Or

- (b) Define Fuse, Earthing, Amperage and Circuit breaker in detail.

10. (a) Discuss the safety measures in the use of portable Electric tools.

Or

- (b) Define the rules and lams of Electric Safety and its uses.



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**CRAFT CERTIFICATE COURSE IN FIRE AND  
INDUSTRIAL SAFETY MANAGEMENT EXAMINATION,  
NOVEMBER 2017**

**SAFETY EQUIPMENTS AND PERSONAL PROTECTIVE  
EQUIPMENTS**

**(Upto 2015 batch)**

Time : 3 Hours

Maximum : 75 Marks

**Part A**

(5 × 3 = 15)

Answer **all** questions.

1. Define PPE and its purchase guidelines.
2. What is eye washer? How to use it?
3. What are Non-respiratory PPE's?
4. Explain the functions of "Smoke Detector" with diagram.
5. What is SAR? Explain with Limitations, usage and maintenance.

**Part B**

(5 × 12 = 60)

Answer **all** questions.

6. (a) Describe "Rescue operation" Explain the "Rescue Operation from Height" in detail.

Or

- (b) Explain the functions and using methods of
  - (i) Half Body Lanyard
  - (ii) Full Body Lanyard in detail.

7. (a) Describe PPE's with "IS codes" in detail.

Or

- (b) How to use PPE's while welding, Cutting, Grinding (in detail).

8. (a) Distinguish respiratory and Non respiratory PPE' s in delayed manner.

Or

- (b) Distinguish active fall protection and passive fall protection in a detailed manner.

9. (a) Explain the following in detail:

- (i) Head protection
- (ii) LEG protection
- (iii) Body protection.

Or

- (b) Explain the function of following in detail

- (i) SAR
- (ii) SCUBA
- (iii) SCBA
- (iv) Chemical Filters.

10. (a) Explain the methods of maintaining PPE's in detail.

Or

- (b) Illustrate the need, usage, creating awareness among PPE in detail