

# Kurigram Polytechnic Institute, Kurigram.

## Semester plan

Subject Name: CONSTRUCTION SAFETY PRACTICES (68833)

Tech: Construction 3rd Semester.

No.of week	No.of Class	General Objective	Remarks
1	1 2	<p><b>1 Understand construction safety practice.</b></p> <p>1.1 State the meaning of construction safety.</p> <p>1.2 Mention the term OSHA in the workplace.</p> <p>1.3 Distinguish between employer and employee rights and responsibilities.</p> <p>1.4 Describe the following terms:</p> <ul style="list-style-type: none"> <li>a. communication skills,</li> <li>b. interpersonal skills,</li> <li>c. time management</li> <li>d. presentation skills</li> </ul> <p>1.5 Importance of record keeping responsibilities on site.</p>	
2	1 2	<p><b>2. Understand the personal protective equipment</b></p> <p>2.1 Mention the necessity of personal protection.</p> <p>2.2 List the personal protective equipment (PPE) used to protect workers.</p> <p>2.3 Describe with sketch the personal protective equipment (PPE) those are most often used to protect team members involved in the work.</p>	
3	1 2	<p>2.4 Describe the causes of the most common workplace injuries.</p> <p>2.5 Describe the necessity of personal protecting equipment (PPE).</p> <p>2.6 Describe about following part of personal protecting equipment:</p> <ul style="list-style-type: none"> <li>a. protection from head injuries.</li> <li>b. eye protection.</li> <li>c. hearing protection.</li> <li>d. foot protection.</li> <li>e. hand and body protection.</li> </ul>	
4	1 2	<p><b>3. Understand the fall protection at construction site.</b></p> <p>3.1 Mention fall protection.</p> <p>3.2 Describe methods of fall protection available to workers.</p> <p>3.3 Describe personal fall arrest systems.</p> <p>3.4 Describe the necessity of guardrails and safety nets.</p>	
5	1 2	<p><b>4. Understand the construction site safety of stairway, ladder and scaffold.</b></p> <p>4.1 Describe safety guidelines and requirements for stairways used at a construction site.</p> <p>4.2 List safe practices and requirements for ladders used at a construction site.</p>	
6	1 2	<p>4.3 Name the common accidents in lifting operations.</p> <p>4.4 Recognize the hazards associated with different types of scaffold.</p>	

7	1 2	<b>5. Understand the safety arrangements of excavation works.</b> 5.1 State the greatest risk that is present at an excavation. 5.2 Name factors that pose a hazard to employees working in excavations, and how to reduce those hazards .[]	
8	1 2	5.3 Mention the term “safe working conditions”. 5.4 Name various type of protecting system from hazard during excavation work.[]	
9	Mid Term Exam		
10	1 2	<b>6. Understand the electrical safety and fire protection in construction site.</b> 6.1 List different kind of electrical hazard. 6.2 Describe the basic of electrical safety and the injuries. 6.3 Identify the hazards of electricity on a construction site and the best way to prevent those hazards from occurring.	
11	1 2	6.4 Describe the necessity to create a working emergency action and fire prevention plan. 6.5 Briefly discuss about electrical shocks and their prevention.	
12	1 2	<b>7. Understand the hazard communication.</b> 7.1 List hazard that may be occur during project construction to make an emergency action plan. 7.2 Describe the necessity of risk assessment. 7.3 Mention the necessity of health and safety management.	
13	1 2	<b>7. Understand the hazard communication.</b> 7.4 Describe the necessity of accident prevention. 7.5 Describe the process of accident investigation and analysis. 7.6 Write a report on accident in a practical site.	
14	1 2	<b>8. Understand the construction site safety from tools and materials handling.</b> 8.1 List various tools that may causes of accidents, diseases, injuries, and dangerous occurrences.	
15	1 2	8.2 Identify, avoid, and control hazardous materials through proper handling, storage, use and disposal. 8.3 Explain the basic procedures for safe materials handling.[]	
16		Extra Class	

## **PRACTICAL:**

1. Identify different instruments & accessories required for construction safety.
2. Perform a job wearing PPE.
3. Perform safety practice for fall protection at construction site.
4. Perform safety practice for scaffolds failure protection at construction site.
5. Locate the positions of fire extinguish accessories in a building and show its use.
6. Perform safety practice in an excavation work.
7. Identify the hazards of electricity on a construction site and follow the best way to prevent those hazards from occurring.
8. Write a report on accident in a practical site.
9. Perform the correct procedure of handle materials safely.
10. Visit a fire station and submit a report.

### **Prepared By**

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