

---

Course Name:	OSHA
Course Code:	17CV564
Semester:	FIFTH
Faculty In-charge:	Mr. ADARSH S

### Question Bank

<b>Module 1: INTRODUCTION</b>	
<b>C306.1: Identify hazards in the workplace that pose a danger to safety and health.</b>	
Sl. No.	Question
1.	Outline the history and development of OSHA.
2.	Write a brief note on national safety policy.
3.	Write a brief note on right-to-know laws as a result of SARA-III.
4.	List out the laws governing OSHA. Discuss any 2 in brief.
5.	Outline and explain the causation/causes of accidents in industry.
6.	Explain the Domino theory of accident causation.
7.	What are the three factors that lead to human error in human factor theory explain?
8.	With an aid of a flow diagram illustrate epidemiological theory of accident causation.
9.	Briefly discuss with a neat diagram the Peterson's accident/incident theory.
10.	Outline the process of accident investigation at a work place.
11.	Explain the supervisory role in accident investigation.
<b>Module 2: ERGONOMICS AND HAZARD COGNITION ANALYSIS</b>	
<b>C306.2: Assess current occupational safety and health problems and solutions.</b>	
1.	Define the term ergonomics and discuss its benefits at work place.
2.	What is task analysis? Explain the process of ergonomic task analysis.
3.	Write a brief note on preventing ergonomic hazard.
4.	What is work space envelop? Explain in brief about sitting workspace and standing workspace.
5.	Write short notes on Visual ergonomics and its need at work place.
6.	Explain in detail about ergonomic standards and ergonomic programs.
7.	Briefly describe the following hazard analysis methodology <ul style="list-style-type: none"> <li>I. Hazard and operability review (HAZOP)</li> <li>II. Fault tree analysis (FTA)</li> <li>III. Human error analysis (HEA)</li> </ul>

	IV. Failure Mode Effect Analysis (FMEA)
8.	Discuss the application of fault tree analysis method with an example.
9.	Explain the process of emergency response plan and decision for action.
<b>Module 3: FIRE PREVENTION AND PROTECTION</b>	
<b>C306.3: Identify the factors that influence occupational safety and health.</b>	
1.	Define fire and explain various types of fire.
2.	Classify the different types of fires and list the causes for each type of fire.
3.	Name the different types of fire based on fuel and also list different types of fire extinguisher for dousing the fire.
4.	What are fire extinguishers? List various fire extinguishing techniques and explain any two of them.
5.	Define product safety. Give the technical requirements for product safety.
6.	Write a note: <ul style="list-style-type: none"> <li>i. Fire development and its severity.</li> <li>ii. Effects of enclosures.</li> <li>iii. Early detection of fire.</li> <li>iv. Electrical safety.</li> </ul>
<b>Module 4: HEALTH CONSIDERATIONS AT WORK PLACE</b>	
<b>C306.4: Demonstrate the knowledge and skills needed to identify workplace problems and safe work practice.</b>	
1.	State various modes of transmission of diseases at work place. Recommend preventive methods for them.
2.	Write a note on health emergency plan at a work place.
3.	Explain the role of personal protective equipment during occupational activity.
4.	Write a note on use of personal protective equipment's for health and safety considerations.
5.	Discuss the effects of exposure to solid waste.
6.	Discuss the effect of exposure to Engineering Industries.
7.	What is Environmental Management Plan (EMP)? Explain the process of EMP for any given project.

---

---

**Module 5: OCCUPATIONAL HEALTH AND SAFETY CONSIDERATIONS**

***C306.4: Demonstrate the knowledge and skills needed to identify workplace problems and safe work practice.***

1.	Illustrate the health and safety considerations to be followed in wastewater treatment plant.
2.	Discuss the safety considerations to be followed in water treatment plant.
3.	State the precautionary measures to be followed handling chemicals at lab.
4.	Discuss the safety considerations to be followed in <ol style="list-style-type: none"><li>Cement Industry</li><li>RMC plants</li><li>Precast plants</li><li>Construction sites.</li></ol>