

<b>CECX 20</b>	<b>INDUSTRIAL HEALTH AND SAFETY</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
		<b>2</b>	<b>0</b>	<b>0</b>	<b>2</b>

**OBJECTIVE:**

To make students conversant with the

- Health hazards and the safety measures to be followed in the industrial environment.
- Categories & Exposure pathways of health hazards
- Methods of prevention and control of Health diseases, accidents/emergencies and other hazards from the workplace.
- Concept of Environmental health & safety management.

**MODULE I INTRODUCTION 7**

Need for developing Environment, Health and Safety systems in workplaces - Accident Case Studies - Status and relationship of Acts - Regulations and Codes of Practice - Role of trade union safety representatives. International initiatives - Ergonomics and workplace.

**MODULE II OCCUPATIONAL HEALTH AND HYGIENE 8**

Definition of the term occupational health and hygiene - Categories of health hazards – Exposure pathways and human responses to hazardous and toxic substances - Advantages and limitations of environmental monitoring and occupational exposure limits - Hierarchy of control measures for occupational health risks - Role of personal protective equipment

**MODULE III WORKPLACE SAFETY AND SAFETY SYSTEMS 7**

Features of Satisfactory and Safe design of work premises – good housekeeping - lighting and colour, Ventilation and Heat Control – Electrical Safety – Fire Safety – Safe Systems of work for manual handling operations – Machine guarding – Working at different levels – Process and System Safety.

**MODULE IV ENVIRONMENTAL HEALTH AND SAFETY MANAGEMENT 8**

Concept of Environmental Health and Safety Management – Elements of Environmental Health and Safety Management Policy and methods of its effective implementation and review – Elements of Management Principles – Education and Training – Employee Participation.

**Total Hours : 30**

**TEXT BOOKS:**

1. Bill Taylor, Wiley "Effective Environmental, Health, and Safety Management Using the Team Approach", Interscience, 2005.
2. Dr.K.U.Mistry, Siddharth Prakashan,"Fundamentals of Industrial Safety and Health" , Siddharth Prakashan Publication, 2012.
3. The Facility Manager's Guide to Environmental Health and Safety by Brian Gallant, Government Inst Publ., 2007.

**REFERENCES:**

1. Charles D. Reese,"Occupational Health and Safety Management: A Practical Approach", CRC Press, NY , 2016.
2. Taylor, "Culinary and Hospitality Industry "Publications Services, 2005.

**OUTCOMES:**

At the end of the course, students will be able to

- Understand the regulations and code of practice related to Industrial Health & Safety.
- Interpret the health hazards present in a work place and a way to prevent it from occurring.
- Identify the various workplace safety and safety systems
- Describe the concept of Environmental Health and safety management