

# INSTITUTE OF INDUSTRIAL SAFETY & FIRE MANAGEMENT

(A Unit of Unimax Services Pvt. Ltd.)

HIG-13, Dharma Vihar, Khandagiri, Bhubaneswar-751030

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Syllabus for 1 Year Course (Post Diploma in Industrial Safety)

(Total Paper – 8)

Total Marks = 1100

Theory- 8×100 mark = 800 marks

Practical - 1×100 marks = 100 marks

Project – 1x 200 marks = 200 marks

Total = 1100 marks

Time – Theory = 300 hr (30 weeks 10 hours/week)

Practical = 40 hr (4 weeks × 10 Hours/week)

Total = 340 hr Teaching

Project Work = 6 weeks

Class- 5 days/Week

Sl. No.	Subject	Chapters	Examination Scheme			
			Theory		Practical	Total
			CT	Final		
1.	Safety Management	Introduction to Safety, Safety Philosophy, Safety Management, Safety Training, Safety Audit etc	30	70		100
2.	Safety Engineering -II	Machine Guarding, Material Handling, Hand Tools and Portable Power Tools, working at Height etc.	30	70		100
3.	Safety Engineering - II	Plant Design and House Keeping, Light Heat and Ventilation, Electrical Safety, Noise and Vibration, Fire Safety etc	30	70		100
4.	Appraisal, Analysis, Inspection and Control,	Safety Appraisal System, Plant Safety Inspection, Accident Investigation, Analysis and Reporting, Hazard Identification and Risk Assessment, Major Accident Hazard Control etc.	30	70		100
5.	Safety and Law	The Factories Act and Rules, The BOCW Act and Rules, Electrical Safety Rules, The Petroleum Act and Rules, The Boiler Act and Rules, The ESI Act, Dock Safety, Manufacture, Storage and Import of Hazardous Chemicals Rules etc. Motor Vehicle Act and Rules	30	70		100
6.	Industrial Hygiene and Occupational Health	Industrial Hygiene, Physiology of Work, Ergonomics, Occupational Health, First Aid etc.	30	70	100	200
7.	Safety in Chemical Industry	Types of Chemical Hazards and their Control, Storage Hazards and Their Control, Process Hazards and their Control, Safe Transportation of Chemicals etc.	30	70		100

## ELECTIVE PAPER (ANY ONE)

Sl. No.	Subject	Chapters	Examination Scheme			
			Theory		Practical	Total
			CT	Final		
1	Safety in Engineering Industry	Safety in Hot work, Safety in Cold work, Safe Operation and Maintenance of Machines, Safety in Welding and Gas Cutting, Safety in Heat Treatment etc	30	70		100
2	Safety in Construction Industry	Hazards in Construction and their Prevention, Construction Machinery Safety, Safety in Underground work, Safety in Above ground work, Safety in demolition etc.	30	70		100
3	Dock Safety	Hazards at the Dock and their control, Dock workers (Safety, Health and Welfare ) Act 1986, Dock Workers ( Safety, Health and Welfare ) Regulations, 1990.	30	70		100
4	Safety in Mining Industry	Hazards at the Mines and their Control, The Mines Act 1952, The Mines Rules 1955, The Oil Mines Regulations 1984, The Mines Rescue Rules 1985 etc.	30	70		100

1.	Project Work					200
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The students have to carry out a project work on any one subject of the theory in an Industry, Construction work, Port or mines for a duration of one and Half month and submit their project report to the institute.