

MAHARASHTRA STATE BOARD OF VOCATIONAL EXAMINATIONS, MUMBAI – 400 051.

1	NAME OF THE SYLLABUS	C.C. IN. INDUSTRIAL SAFETY TRAINING (411123)																																															
2	MAX NO. OF STUDENT IN ONE BATCH	25 Students																																															
3	DURATION OF THE COURSE	6 Months																																															
4	TYPE	Part Time																																															
5	NOS. OF DAYS/ WEEK	6 Days in a week																																															
6	NOS OF HOURS / DAYS	Daily 4 Hrs in a Day																																															
7	SPACE REQUIRED	Class Room = 300 Sq. ft. Laboratory = 200 Sq. ft. <u>Open Ground for drills = 5000 Sq. ft.</u> Total Place Required = 5500 Sq. ft.																																															
8	ENTRY QUALIFICATION	SSC.																																															
9	OBJECTIVE OF SYLLABUS / INTRODUCTION	He can have his own venture of TRADING & TRAINING He can get Job in any Establishment.																																															
10	TEACHERS QUALIFICATION	<ul style="list-style-type: none">Govt. recognized Diploma in Industrial Safety ManagementGovt. recognized Diploma in Fire Prevention.Faculty having Govt. recognized Diploma from India or abroad.																																															
11	TRAINING SYSTEM	Training System Per week <table><tr><td>Theory</td><td>Practical</td><td>Total</td></tr><tr><td>06 Hrs</td><td>18 Hrs</td><td>24 Hrs</td></tr></table>						Theory	Practical	Total	06 Hrs	18 Hrs	24 Hrs																																				
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12	EXAMINATION SYSTEM	<table><tr><td>Sr. No.</td><td>Paper Code</td><td>Name of Subject</td><td>TH/PR</td><td>Hours</td><td>Max Marks</td><td>Mini. Marks</td></tr><tr><td>1</td><td>41112311</td><td>Security Functions</td><td>TH-I</td><td>3 hrs</td><td>100</td><td>35</td></tr><tr><td>2</td><td>41112312</td><td>Fire Prevention</td><td>TH-II</td><td>3 hrs</td><td>100</td><td>35</td></tr><tr><td>3</td><td>41112321</td><td>Security Functions</td><td>PR-I</td><td>3 hrs</td><td>100</td><td>50</td></tr><tr><td>4</td><td>41112322</td><td>Fire Prevention</td><td>PR-II</td><td>3 hrs</td><td>100</td><td>50</td></tr><tr><td></td><td></td><td>Total</td><td></td><td></td><td>400</td><td>170</td></tr></table>						Sr. No.	Paper Code	Name of Subject	TH/PR	Hours	Max Marks	Mini. Marks	1	41112311	Security Functions	TH-I	3 hrs	100	35	2	41112312	Fire Prevention	TH-II	3 hrs	100	35	3	41112321	Security Functions	PR-I	3 hrs	100	50	4	41112322	Fire Prevention	PR-II	3 hrs	100	50			Total			400	170
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Sr. No.	THEORY – I SUBJECT: – Security Functions	PRATICAL – I Security Functions
1	Fundamental of Industrial Safety	Use Machine Guard and Installation
2	Cause of Accidents its preventive measures and cost of accidents	Demonstration of Different stage of Fire & Film on Subject
3	Measurement of Safety performance	Demonstration and use of Breathing Apparatus
4	Job safety analysis	Wearing Personal Protective suits for preparing complete protection
5	Hazard and operability study	Classification of Fire and Methods of Extinguishing all types of fires
6	Plant safety inspection	Demonstration and use of Breathing Apparatus ½ Hrs , 15 minutes
7	Safety audit	Safe Entry and Exit Procedures & Practical Rescue.
8	Safety Survey	Hands on Lock– out & Tag– out Techniques How to use the Tags
9	Industrial psychology in accident prevention	Video Films on Safety in hotel, Fire Prevention, Rescue & First Aid
10	Safety Management	The investigation techniques will be on the basis of safety norms as well as the accident report would be prepared as per the formats.
11	The role of management in industrial safety.	Regular Training will be provided on Industrial Safety
12	Accident report and investigation	Role of Supervisor will be specified through practical during the project work.
13	Safety Education and Training	Work Permit will be made as per the format.
14	Role of Supervisor in Safety	Practically handling the safety material during the training.
15	Work Permit System	Safety Practices at the time of welding and gas cutting.
16	Safety tag system and housekeeping	Safety in use of gas cylinder practically extinguishing gas cylinder fire. And a film on the subject.
17	Safety Inventory system	Practically checking the washers, wall leakage.
18	Safety in material handling	
19	Safety in welding and gas cutting operation	
20	Safety in the use of gas Cylinders	
21	Safety in Maintenance	
22	Act <ul style="list-style-type: none"> • Factory Act, 1948. • Workmen Compensation Act, 1923. • The Employees State Insurance Act, 1948 	

	THEORY – II SUBJECT: – Fire Prevention	PRACTICAL – II Fire Prevention
1	Evolution of industrial Safety Movement	Film on Motivation of Work force to adopt safety norms.
2	International Labour Organization and its role in safety health and welfare of workers	Film on Good Housekeeping
3	Factories Act 1948	Tool Box Keeping & Inspection of Tools
4	The Indian Electricity Act 2003	
5	The Workmen Compensation Act 1923	Selection of Companies for visit and to understand working of safety
6	The Employees State Insurance Act 1948	Type – Inspection – Testing of laddator safety of procedural ladder
8	Emergency Planning	Film of Electric Safety while or work
9	Damager Control	Protective Equipment – use– when – why
10	Safety in use of Electricity	Practical and Proper use for best result.
11	Industrial Measurement	Fire Safety norms implementation for total Fire Prevention.
12	Occupational Health Hazards	Serious Fire in petroleum premises, fire in Hotels, Rescue from multi-story building.
13	Personal Protective Equipments	Practical
14	Industrial Noise	Fire Safety norms implementation for total Fire Prevention.
15	Salvage	
16	Industrial Lighting	Serious Fire in petroleum premises hospital, multi– story building, Gas leakage.
17	Act <ul style="list-style-type: none"> • Factory Act, 1948. • Workmen Compensation Act, 1923. • The Employees State Insurance Act, 1948 	
18	Heat and Ventilation	Inspections– Prevention– Correction
19	Case Study – Leakage at Bhopal at Carbon Carbide Ltd.	Film on the subject and development happened in 25 years and the result as on date.

15	LIST OF TOOLS &EQUIPMENTS REQUIRED FOR TRAINING	<ul style="list-style-type: none"> • Safety Gear – Hearing /Head/Foot/Hand and Arm/ Eyes and Face Protection 2 Sets of each • Safety Signs (Different Charts) • Fire Fighting Equipment (Delivery Hose with Couplings - 3 (15 meters of length) • Short Branch – 1 • Deffuger Branch - 1 • Landon Pattern Hand Control Branch – 1 • First Aid Equipments – 1 box • Fire Extinguisher of Water/ CO2/ DCP/Foam/ AFFF – One each • Safety Helmet v 6 • Safety shoes – 6 Pairs • Safety Gloves – 6 Pairs • Safety Goggles – 6 • Ear Plugs – 6 Sets • Safety Belts – 6 • Detector – Fire , Smoke, Heat – 1 each • 20 Minutes Fire Proof Fire Fighting Jackets – 1 • Fire Alarm (Manual & Automatic) 1 + 1 • Aluminum Fire Suit – 1 • Fire Resistant Material – 1 Set • Flammable with Flame Proof, spark Proof equipment and tools – 1 Set • Breathing Apparatus –1 • Structure – 2 • Housekeeping Equipment – 1 Set
16	LIST OF REFERENCE BOOKS	<ul style="list-style-type: none"> • Industrial Safety Management written by L.D. Deshmukh • Books Published by National Safety Council on Health and Safety Vol– I & Vol– II • Safety Book Prepared by the Institute • Books and notes prepared by Institute of Security of Fire Technology & Institute of Fire Technology.
17	Supervisor’s Accident Report	<p>Practical on Report Writing To be submitted within 24 Hrs of the Occurrence</p>
