

MAHARASHTRA STATE BOARD OF SKILL DEVELOPMENT EXAMINATION, MUMBAI

1	Name of Course	Certified Fire Safety Auditor		
2	Course Code	(411192)		
3	Max. No. of Students Per Batch	25 Students		
4	Duration	6 Months (fresher)	3 months (fast –track for working professional)	
5	Type	Part time	Part-time	
6	No. Of Days / Week	Classroom/ Online / Blended learning	Daily evening lectures Online Blended learning	
7	No. Of Hours /Days	14 hrs –Sat - Sun	3 hrs /day 4 days/week- Online Live faculty 7 hrs – Sunday/ Classroom	
8	Space Required	Theory = 250 sq feet Practical = as per requirement		
9	Minimum Entry Qualification	Graduate in any field with relevant work experience plus Advance Diploma/Diploma in Fire and Industrial safety or 12 th pass with 8 year of relevant Industry experience in safety		
10	Objective Of Course	Right process results and improvements world-wide are dependent on quality of implementation of world class standards and procedures and replication of best practices. Every biz can produce effective results by using auditors for internal assessments and compliance is a by –product. There is huge gap in availability of skilled and certified auditors for 3rd party audit. This course meets that requirement.		
11	Employment Opportunity	Shall be qualified for do Fire safety audits for residential and commercial buildings. Can also do factory audits and internal audits		
12	Teacher’s Qualification	Degree in Any branch of Engineering Or B.Sc with Diploma in Fire Engg or Diploma in Industrial Safety or ADIS and minimum 5 Years’ Experience as a Fire & Safety Officer a with relevant audit experience or LA – ISO – 45001 certified		
13	Training System	Training System Per Week (average)		
		Theory 10 hrs	Practical 10 hrs	Total 20 hrs
14	Internship	Industry - Construction, Oil & Gas, Infrastructure etc		
15	OJT /Hands on Training (Industry)	Residential buildings, Commercial building . Factories and Other companies not under factories Act		

1 6	Implant Training	N.A																																										
1 7	Projects	Audit in any of the criteria – All types of Occupancies such as residential, Industrial, Institutional, Assembly, educational, commercial buildings, factories etc.																																										
1 8	Seminars	Attend webinar, Exhibition																																										
1 9	Exam. System	<table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Paper Code</th> <th>Name of Subject</th> <th>TH/PR</th> <th>Hours</th> <th>Max. Marks</th> <th>Min. Marks</th> </tr> </thead> <tbody> <tr> <td colspan="7" style="text-align: center;">First Year</td> </tr> <tr> <td>1</td> <td>41119211</td> <td>Fire Audit - Paper I – Technical</td> <td>TH/PR</td> <td>3hrs.</td> <td>100</td> <td>50</td> </tr> <tr> <td>2</td> <td>41119212</td> <td>Fire Audit - Paper II – Audit Process</td> <td>TH/PR</td> <td>3hrs.</td> <td>100</td> <td>50</td> </tr> <tr> <td>3</td> <td></td> <td>Assessment – I – Project/Scenario/Case study</td> <td>Grade</td> <td></td> <td>A</td> <td>D</td> </tr> <tr> <td></td> <td></td> <td>Total</td> <td></td> <td></td> <td>200</td> <td>100</td> </tr> </tbody> </table>	Sr. No.	Paper Code	Name of Subject	TH/PR	Hours	Max. Marks	Min. Marks	First Year							1	41119211	Fire Audit - Paper I – Technical	TH/PR	3hrs.	100	50	2	41119212	Fire Audit - Paper II – Audit Process	TH/PR	3hrs.	100	50	3		Assessment – I – Project/Scenario/Case study	Grade		A	D			Total			200	100
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2 0	Soft Skill Covered	Spoken English/Interview Training/Grooming/Presentation/ Report writing / presentation skills / Communication// Observation/ inspections																																										
2 1	Question Bank	<ul style="list-style-type: none"> Objective type (Topic wise) Subjective Practical 																																										
2 2	Lesson Plan	<ul style="list-style-type: none"> Weekly 																																										
2 3	Demo Plan (Skills covered)	<ul style="list-style-type: none"> Weekly 																																										
2 4	Occupation Map (Scope for Employment)	Safety requirement in all Industries..																																										
2 5	List of Machinery/Equipment/Tool	No specific machinery required for audit process																																										
2 6	Reference Books/ Website/ On line resources	Audit Techniques IS 14489 ISO 19011 ISO 45001 Fire Equip standards National Building Code of India, 2005 / 2016 TAC Standards for Fire Protection NFPA 70 E and B for Electrical Safety in Workplaces Indian Electricity Rules / CEA Regulations National Electric Code																																										

		NFPA 101 — Life Safety Code All applicable Indian Standards on Fire and Safety Fire safety related BIS standards Development Control Regulations of that area OISD guidelines for Refineries ICAO / DGCA-CAR guidelines for Airport – Airside Explosive act & rules
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Assessment methodology

1. Continuous assessment using workbooks
2. MCQ based assessment at topic level
3. Descriptive test
4. Project work based on Site visit/implant/internship/site project/process
5. Test paper is based on 50% theory and 50% practical case-studies

Syllabus

- Detail knowledge about Active and Passive system.
- Detail knowledge about Life Safety
- Detail knowledge about NBC- part IV, Part – III & Part VIII,
- Detail knowledge about explosive act and rules
- Detail knowledge about suppose causes of Fire
- Electricity related suppose causes of Fire
- Flammable / Hazardous /Chemicals and suppose cause of Fire
- Hazchem detail study
- Study about Fire Load calculation
- Study about Fire Act and Rules
- Comprehensive 360-degree assessment of the building.
- Checking the adequacy of fire safety equipment & their maintenance check.
- Checking compliance of building structure with relevant fire safety norms.
- Checking preparedness for fire incidences (awareness, training etc)
- Identification & control of ignition sources in areas where flammable chemicals are stored / handled / transferred.
- Review of chemical compatibility in storage areas and to suggest appropriate fire loss control measures
- Review of electrical hazard which are potential causes of fire
- Review of fire detection measures adopted & to suggest suitable improvement measures
- Review of the various active (fire hydrant, sprinkler, portable fire extinguishers) and passive fire protection requirements for chemical storage and handling areas and to suggest improvements as necessary
- Review of Fire Alarm system and emergency fire system of plant
- Review of contractor safety awareness (chemical spill, fire fighting, emergency communication, knowledge of plant hazards & safety regulations) and to recommend suitable improvement measures to enhance contractor safety
- Review of safety awareness and safety training requirements (training identification and efficacy) of employees with respect to hazards present
- Audit Process and checklist
- Audit report
- Specific clauses and introduction to 14489, ISO – Standards 19011, 45001, 14001, 9001