QUALIFICATION FILE

Firefighter

☒ Short Term Training (STT) ☐ Long Term Training (LTT) ☐ Apprenticeship

☐ Upskilling ☐ Dual/Flexi Qualification ☐ For ToT ☐ For ToA

☒General ☐ Multi-skill (MS) ☐ Cross Sectoral (CS) ☐ Future Skills ☐ OEM

NCrF/NSQF Level: 4

Submitted By:

Management & Entrepreneurship and Professional Skills Council (MEPSC)
20th Floor, Amba Deep, 14, Kasturba Gandhi Marg, New Delhi -110001

Table of Contents

Section 1: Basic Details 3
Section 2: Module Summary 5
NOS/s of Qualifications 5
Mandatory NOS/s: 5
Assessment - Minimum Qualifying Percentage 6
Section 3: Training Related 6
Section 4: Assessment Related 6
Section 5: Evidence of the need for the Qualification 7
Section 6: Annexure & Supporting Documents Check List 7
Annexure: Evidence of Level 8
Annexure: Tools and Equipment (Lab Set-Up) 10
Annexure: Industry Validations Summary 12
Annexure: Training & Employment Details 15
Annexure: Blended Learning 16
Annexure: Detailed Assessment Criteria 17
Annexure: Assessment Strategy 26
Annexure: Acronym and Glossary 28

Section 1: Basic Details

<table>
<tr><td>1.</td><td>Qualification Name</td><td colspan="2">Firefighter</td></tr>
<tr><td>2.</td><td>Sector/s</td><td colspan="2">Management</td></tr>
<tr><td>3.</td><td>Type of Qualification:
☐ New ☒ Revised ☐ Has Electives/Options
☐OEM</td><td>NQR Code & version of existing/previous qualification:
2022/OAFM/MEPSC/05432, v2</td><td>Qualification Name of existing/previous version:
Firefighter, v2</td></tr>
<tr><td>4.</td><td>a. OEM Name
b. Qualification Name</td><td colspan="2">Firefighter</td></tr>
<tr><td>5.</td><td>National Qualification Register (NQR) Code &Version</td><td>2022/OAFM/MEPSC/05432, v3</td><td>6. NCrF/NSQF Level: 4</td></tr>
<tr><td>7.</td><td>Award (Certificate/Diploma/Advance Diploma/ Any Other</td><td colspan="2">Certificate</td></tr>
<tr><td>8.</td><td>Brief Description of the Qualification</td><td colspan="2">Firefighters deal with a wide range of emergency situations like fires, oil and chemical spills, natural disasters like floods and earthquake, traffic accidents and rescue of trapped persons by using appropriate fire-fighting equipment and safety devices. They also give advice to people and organisations on how to prevent fires and accidents.</td></tr>
<tr><td>9.</td><td>Eligibility Criteria for Entry for Student/Trainee/Learner/Employee</td><td colspan="2">a. Entry Qualification & Relevant Experience:
<table>
<tr><th>S. No.</th><th>Academic/Skill Qualification (with Specialization - if applicable)</th><th>Required Experience (with Specialization - if applicable)</th></tr>
<tr><td>1</td><td>10th grade pass</td><td></td></tr>
</table>
For Male (Minimum) - Height: 165 cm (Relaxable by 5 cms in the case of Garhwalis, Assamese Gorkha and member of the Schedule tribes); Chest: 81 cm Unexpanded and 86 cm Expanded (Fully expanded with minimum of 5 cm Expansion); Weight: min. 50 kgs.

For Female (Minimum) - Height: 157 cm (Relaxable by 2.5 cm in the case of Garhwalis, Assamese Gorkha and member of the Scheduled tribes); Weight: 46 kgs.

Medical Standard - a) Visual: Better eye - 6/6 (Eligible vision - 6/6 only) Worse eye- 6/12; b) Colour Vision :- No colour blindness.; c) The candidate must not have knock knee, flat feet, squint eyes and stammering. d) Must be in good mental and bodily health and free from any physical defect. (Source: National Fire Service College, Nagpur)

b. Age: 18 Years</td></tr>
</table>

<table>
<tr><td>10.</td><td>Credits Assigned to this Qualification, Subject to Assessment</td><td>21
26 (with recommended OJT)</td><td>11. Common Cost Norm Category (I/II/III) (wherever applicable): II</td></tr>
<tr><td>12.</td><td>Any Licensing requirements for Undertaking Training on This Qualification (wherever applicable)</td><td colspan="2"></td></tr>
<tr><td>13.</td><td>Training Duration by Modes of Training Delivery (Specify Total Duration as per selected training delivery modes and as per requirement of the qualification)</td><td colspan="2">☒Offline ☐Online ☐Blended
<table>
<tr><th>Training Delivery Modes</th><th>Theory (Hours)</th><th>Practical (Hours)</th><th>OJT Mandatory (Hours)</th><th>OJT Recommended (Hours)</th><th>Total Mandatory Notional (Hours)</th></tr>
<tr><td>Classroom (offline)</td><td>234</td><td>396</td><td></td><td>150</td><td>780</td></tr>
<tr><td>Online</td><td></td><td></td><td></td><td></td><td></td></tr>
</table>
(Refer Blended Learning Annexure for details) Total Hours = 630 + 150 OJT (recommended)</td></tr>
<tr><td>14.</td><td>Aligned to NCO/ISCO Code/s</td><td colspan="2">NCO-2015/5411.0100</td></tr>
<tr><td>15.</td><td>Progression path after attaining the qualification</td><td colspan="2">Fire Supervisor</td></tr>
<tr><td>16.</td><td>Other Indian languages in which the Qualification & Model Curriculum are being submitted</td><td colspan="2">Hindi</td></tr>
<tr><td>17.</td><td>Is similar Qualification(s) available on NQR-if yes, justification for this qualification</td><td colspan="2">☐ Yes ☒ No URLs of similar Qualifications:</td></tr>
<tr><td>18.</td><td>Is the Job Role Amenable to Persons with Disability</td><td colspan="2">☐ Yes ☒ No
If “Yes”, specify applicable type of Disability:</td></tr>
<tr><td>19.</td><td>How Participation of Women will be Encouraged</td><td colspan="2">Both men and women can equally participate</td></tr>
<tr><td>20.</td><td>Are Greening/ Environment Sustainability Aspects Covered</td><td colspan="2">☒ Yes ☐ No</td></tr>
<tr><td>21.</td><td>Is Qualification Suitable to be Offered in schools/Colleges</td><td colspan="2">Schools ☐ Yes ☒ No Colleges ☐ Yes ☒ No</td></tr>
<tr><td>22.</td><td>Name and Contact Details of Submitting / Awarding Body SPOC</td><td colspan="2">Name: Col. Anil Kumar Pokhriyal
Email: ceo@mepsc.in
Contact No.: 011-24645100
Website: https://www.mepsc.in/</td></tr>
<tr><td>23.</td><td>Final Approval Date by NSQC: 24/02/2022</td><td>24. Validity Duration: 36 months</td><td>25. Next Review Date: 24/02/2025</td></tr>
</table>

Section 2: Module Summary

NOS/s of Qualifications

(In exceptional cases these could be described as components)

Mandatory NOS/s:

***Th.**-Theory **Pr.**-Practical **OJT**-On the Job **Man.**-Mandatory Training **Rec.**-Recommended **Proj.**-Project*

S. No	NOS/Module Name	NOS/Module Code & Version *(if applicable)*	Core/ Non-Core	NCrF/ NSQF Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Proj.	Viva	Total	Weightage (%) *(if applicable)*
1.	Identify type of fire and response required	MEP/N7301, V 3.0	Core	4	3	30	60			90	30	70			100	15
2.	Carry out first-aid firefighting using portable extinguishers	MEP/N7302, V 3.0	Core	4	3	30	60			90	30	70			100	15
3.	Respond to the fire incident using firefighting systems	MEP/N7303, V 3.0	Core	4	5	60	90			150	30	70			100	15
4.	Carry out rescue operations and administer medical first-aid	MEP/N7304, V 3.0	Core	4	3	30	60			90	30	70			100	20
5.	Inspect installed fire safety equipment and systems and ensure their operational readiness	MEP/N7305, V 3.0	Core	4	3	30	60			90	40	60			100	15
6.	Maintain health and safety of self and others as a firefighter	MEP/N7306, V 3.0	Core	4	1	15	15			30	40	60			100	10
7.	Work effectively in a team as a firefighter	MEP/N7307, V 3.0	Core	4	1	15	15			30	30	70			100	5
8.	Employability Skills (60 hrs)	DGT/VSQ/N0102, V 1.0	Non-Core	4	2	24	36			60	20	30			50	5
9.	OJT (Recommended)				5				150	150						
Duration (in Hours) / Total Marks					**26**	**234**	**396**		**150**	**780**	**250**	**500**			**750**	**100**

Assessment - Minimum Qualifying Percentage

Minimum Pass Percentage – Aggregate at qualification level: 70 % *(Every Trainee should score specified minimum aggregate passing percentage at qualification level to successfully clear the assessment.)*

Minimum Pass Percentage – NOS/Module-wise: ___% *(Every Trainee should score specified minimum passing percentage in each mandatory and selected elective NOS/Module to successfully clear the assessment.)*

Section 3: Training Related

1.	**Trainer's Qualification and experience in the relevant sector (in years)** *(as per NCVET guidelines)*	Graduate/ Diploma in 2 years of relevant experience in firefighting and 3 years of training experience.
2.	**Master Trainer's Qualification and experience in the relevant sector (in years)** *(as per NCVET guidelines)*	Graduate/ Diploma in 3 years of relevant experience in firefighting and 4 years of training experience.
3.	**Tools and Equipment Required for Training**	☒Yes ☐No (*If "Yes", details to be provided in Annexure)*
4.	**In Case of Revised Qualification, Details of Any Upskilling Required for Trainer**	

Section 4: Assessment Related

1.	**Assessor's Qualification and experience in relevant sector (in years)** *(as per NCVET guidelines)*	Graduate/ Diploma in 2 years of relevant experience in firefighting and 3 years of training and assessment experience.
2.	**Proctor's Qualification and experience in relevant sector (in years)** *(as per NCVET guidelines)*	Graduate in 3 years of relevant experience.
3.	**Lead Assessor's/Proctor's Qualification and experience in relevant sector (in years)** *(as per NCVET guidelines)*	Graduate/ Diploma in 3 years of relevant experience in firefighting and 4 years of training and assessment experience.
4.	**Assessment Mode** *(Specify the assessment mode)*	Offline
5.	**Tools and Equipment Required for Assessment**	☒ Same as for training ☐ Yes ☐ No *(details to be provided in Annexure-if it is different for Assessment)*

Section 5: Evidence of the need for the Qualification

Provide Annexure/Supporting documents name.

1.	**Latest Skill Gap Study (not older than 2 years) (Yes/No):** Yes
2.	**Latest Market Research Reports or any other source (not older than 2 years) (Yes/No):** Yes
3.	**Government /Industry initiatives/ requirement (Yes/No):** Yes
4.	**Number of Industry validation provided:** 35
5.	**Estimated nos. of persons to be trained and employed:** Approx. 500
6.	**Evidence of Concurrence/Consultation with Line Ministry/State Departments:** *Yes* If "No", why:

Section 6: Annexure & Supporting Documents Check List

1.	**Annexure:** NCrF/NSQF level justification based on NCrF level/NSQF descriptors *(Mandatory)*	*Mentioned below*
2.	**Annexure:** List of tools and equipment relevant for qualification *(Mandatory, except in case of online course)*	*Mentioned below*
3.	**Annexure:** Detailed Assessment Criteria *(Mandatory)*	*Mentioned below*
4.	**Annexure:** Assessment Strategy *(Mandatory)*	*Mentioned below*
5.	**Annexure:** Blended Learning *(Mandatory, in case selected Mode of delivery is "Blended Learning")*	*Mentioned below*
6.	**Annexure:** Multiple Entry-Exit Details *(Mandatory, in case qualification has multiple Entry-Exit)*	*NA*
7.	**Annexure:** Acronym and Glossary *(Optional)*	
8.	**Supporting Document:** Model Curriculum *(Mandatory – Public view)*	*Yes*
9.	**Supporting Document:** Career Progression *(Mandatory - Public view)*	*Yes*
10.	**Supporting Document:** Occupational Map *(Mandatory)*	*Yes*
11.	**Supporting Document:** Assessment SOP *(Mandatory)*	*Yes*
12.	**Any other document you wish to submit:**	*NA*

Annexure: Evidence of Level

NCrF/NSQF Level Descriptors	Key requirements of the job role/ outcome of the qualification	How the job role/ outcomes relate to the NCrF/NSQF level descriptor	NCrF/NSQF Level
Professional Theoretical Knowledge/Process	Job that requires well developed skill, with clear choice of procedures in familiar context. ● implement crowd control, reduce confusion and lower emotional stress ● carry out duties of Fire-fighter at fire station and on the ground ● carry out control, containment and confinement operations ● emergency response planning and disaster management ● select a suitable equipment for first-aid fire- fighting - ensure safety of self and others while fighting fires	The Job holder is expected to independently perform work of firefighting and rescuing with very little support from superiors. The person should take on the spot decision regarding evacuation plan and select right kind of fire extinguisher depending on the source of fire, decide on proper harness, shifting of victim and the like.	4
Professional and Technical Skills/ Expertise/ Professional Knowledge	There are various job specific knowledge required: Density, specific gravity, melting point, freezing point, boiling point, latent heat of vaporization/ fusion, oxidizing and reducing agents), measurement of temperature and conversion of their scales ● Types of fire extinguishers, extinguishment theory for dry chemical application ● Methods of fire extinguishment-cooling, smothering and starvation ● Process of fire extinguishment - Hose, hose appliances and hose tools ● Fixed firefighting systems-(hydrants, sprinklers, standpipe, deluge, fixed foam auto, semi-auto protection systems) ● watch room procedures and mobilization ● primary and secondary search of structures, safe evacuation procedures, evacuation of ● survivors and removal of bodies	The job holder requires a lot of professional knowledge. Only then can the person carry out the right processes in the work. Incorrect actions can not only endanger the life of self but also others. It could also lead to fire hazards. Hence, professional knowledge is crucial as the person has to take decisions on correct actions.	4

Employment Readiness & Entrepreneurship Skills & Mind-set/Professional Skill	Firefighter requires a number of skills like: identify various rescue equipment for specific situations ● know locations of assembly/muster points ● carry out rescue on land, at heights and in water ● correctly evaluate surroundings and situation ● correctly assess the condition of the casualty ● correctly assess air way, breathing and circulation in the casualty ● ensure self and others safety keeping in view basic industrial safety management	The job holder is expected to demonstrate practical skills, using rule and tool of the job role. Certain level of decision making too is involved. This is a profession of saving life and sometimes the fire can be hazardous. The skill in traversing and dark and dangerous/weakened structures and handling a casualty correctly giving the right care at the right time is crucial.	4
Broad Learning Outcomes/Core Skill	A Fire-fighter is required to interact with team members, emergency services and public. This person is also required to guide fellow Fire-fighter during the operation. A Fire-fighter is also required to complete necessary documents as per standard procedures.	The job holder is expected to exhibit effective oral communication skills so as to have pleasant and engaging conversations. The person should make precise and clear announcements and directions during firefighting or while informing stakeholders or rescue team members. Share information as per organisational data security and confidentiality policy, follow security norms and show written communication skills such as maintaining registers and incident reports are also important.	4
Responsibility	Firefighter is responsible for efficient firefighting and learning the skills required for the job. The person is also responsible to be physically and mentally fit and alert.	The job holder is responsible for the safe handling of fire and emergencies. The person should take care of the health and physical fitness of self to be able to carry out the job role.	4

Annexure: Tools and Equipment (Lab Set-Up)

List of Tools and Equipment

Batch Size: 30

S. No.	Tool / Equipment Name	Specification	Quantity for specified Batch size
1	Land required for PT, parade, and Fire drill		1
2	Mannequins for medical first responders		2
3	Hydraulic rescue tools		5
4	Drill tower for conducting search rescue and medical first responders drills		1
5	Salvage Equipment		1
6	Foam Making equipment		1
7	Gas Detectors		1
8	Light/ Flame detector		1
9	Heat detector		1
10	Smoke detector		1
11	semi-auto fire protection systems		1
12	Deluge Valve System		1
13	Standpipe		1
14	Pump and primers		1
15	First aid kit with all contents		1
16	Emergency rescue equipment		1
17	Security control room kit		1
18	Fire alarm system		1
19	A water supply and distribution system		1
20	Sprinklers head		15
21	Hydraulic Pressure Testing Machine		1
22	Adapter for Air Store Pressure		1
23	Hydrant Key & Bar (with hydrant Spindle)		1
24	Dividing Breeching(Hand control)		1
25	Collecting Breeching		1
26	Body Harness		5
27	Plastic Tunnel(Sewer Rescue Drill)		1

28	Personal Fall Arrest System(PFAS)		1
29	Personal Protective Clothing		15
30	Personal Protective Equipment		15
31	Lines 100 ft Long		1
32	Ropes 100 ft Long		1
33	Extension Ladder		1
34	Entry suit/Proximity Suit		1
35	Manual call point		1
36	Fire Trays		1
37	Hydrant-Stand Pipe Type		1
38	All types of Couplings		1
39	BA Set (Negative & Positive Pressure)		1
40	All Types of small gears		15
41	Basket Strainer		1
42	Metal Strainer		1
43	Suction Wrench		1
44	Fire fighting Point complete set		1
45	Suction Hose		1
46	Hose Box		1
47	Nitrogen Cylinder		1
48	Hose reel system		1
49	Fire Delivery hose		1
50	All types of Branches Or Nozzles		1
51	Class A, B, C and D Fire Extinguishers		5

Classroom Aids

The aids required to conduct sessions in the classroom are:

1. White/Black Board, Duster, Marker etc.
2. LCD projector, Laptop/desktop

Annexure: Industry Validations Summary

S. No	Organization Name	Representative Name	Designation	Contact Address	Contact Phone No	E-mail ID	LinkedIn Profile *(if available)*
1	A Plus Security and Fire Management	Anil Bhatt	Managing Director	Madhya Pradesh	Attached	Attached	
2	Action & Protection Security Force	Col. K S Raju	Senior VP	Telangana	Attached	Attached	
3	Action Guarding Services Pvt. Ltd.	R Narender	Associate Director	Telangana	Attached	Attached	
4	Agile Security Force Pvt. Ltd.	TN Rao	Director-Training	Telangana, Karnataka, Kerala	Attached	Attached	
5	Checkmate	Bhavyash Karria	VP-HR &Legal	Gujarat	Attached	Attached	
6	Central Investigation & Security Services Ltd.	Dr. Rajkumar Tyagi	**VP**	Maharashtra, Gujarat	Attached	Attached	
7	Cosmos manpower Pvt. Ltd.	Dr. Sameer Trivedi	Managing Director	Gujarat	Attached	Attached	
8	Creantum Security Solutions Pvt. Ltd.	Amit Kumar Bansal	CEO	Uttar Pradesh	Attached	Attached	
9	D1 Fortification Pvt. Ltd.	MP Unnnithan	GM	Karnataka	Attached	Attached	
10	Escort Security & Personal services	Amreshkumar Malik	Training Head	Gujarat	Attached	Attached	

11	Falcon Eye Skill Source Pvt. Ltd.	DB Pravallika	CEO	Andhra Pradesh	Attached	Attached	
12	Galaxy Human Resource Services	N Vivekanandam	CEO	Telangana	Attached	Attached	
13	Goswami Security Training Center	Himanshu Shekhar	Operations Manager	Uttar Pradesh	Attached	Attached	
14	Institution of Fire Engineers	US Chillar	General Secretary	Delhi	Attached	Attached	
15	Industrial Protection Services	A Muniswaran	AGM Operations	Tamil Nadu	Attached	Attached	
16	Ironman security services Pvt. Ltd.	Niranjan Singh Malik	DGM	Uttar Pradesh	Attached	Attached	
17	Keertika Academy Pvt. Ltd.	Bhaskar Chatterjee	VP	Kolkata	Attached	Attached	
18	Kingdom Protection Services Pvt. Ltd.	Jay Anand	Director	Kerala	Attached	Attached	
19	Max Vigil Security Expert Pvt. Ltd.	IP Singh	Director	Gujarat	Attached	Attached	
20	Mi2C Security & Facilities Pvt. Ltd.	Indeep Singh	Sr. Executive	Delhi	Attached	Attached	
21	National Security Services	Capt Raghuvirsingh Jadeja	Partner	Gujarat	Attached	Attached	
22	Private Eye Pvt. Ltd.	P Ravindranath	Director	Tamil Nadu, Karnataka, Maharashtra, Telangana, Kerala, Odisha	Attached	Attached	

23	Peregrine Guarding Pvt. Ltd.	Capt Anil Kumar	AVP-Training	Delhi	Attached	Attached	
24	Rakshak Securitas Pvt. Ltd.	Rakesh Singh	VP	Delhi	Attached	Attached	
25	Ranchi Security Pvt. Ltd.	Vigyan Kumar	Director	Jharkhand	Attached	Attached	
26	Raxa Security Services	Col Harjinder Singh	Head	Andra Pradesh	Attached	Attached	
27	S& IB Services Pvt. Ltd.	Avishek Mitra	Asst. Manager	Kolkata	Attached	Attached	
28	Sai Security Services Pvt. Ltd.	D Swammy Reddy	Managing Director	Telangana	Attached	Attached	
29	Saikor Security Training & Services Pvt. Ltd.	Lt Col Sreenivasa Rao Kurra	Managing Director	Andra Pradesh	Attached	Attached	
30	Security Association of Gujarat	Dr Sameer Trivedi	Secretary	Gujarat	Attached	Attached	
31	Sharp Detective and security services	Muzaffar Shareef	Admn. Manager	Telangana	Attached	Attached	
32	SRF Detective & Security Services Pvt. Ltd.	Capt Prabhat Kumar Pandit	VP	Karnataka	Attached	Attached	
33	Star Security and Placement	Ajit S Nair	GM	Kerala	Attached	Attached	
34	Terrier Security Services India Pvt. Ltd.	Brig Arun Dravid	Head	Karnataka	Attached	Attached	
35	TNR Sainik academy society	B Ramesh	Chairman	Telangana	Attached	Attached	

Annexure: Training & Employment Details

Training and Employment Projections:

Year	Total Candidates		Women		People with Disability	
	Estimated Training #	Estimated Employment Opportunities	Estimated Training #	Estimated Employment Opportunities	Estimated Training #	Estimated Employment Opportunities
2023	150	500				
2024	150	500				
2025	150	500				

Data to be provided year-wise for next 3 years

Training, Assessment, Certification, and Placement Data for previous versions of qualifications:

Qualification Version	Year	Total Candidates				Women				People with Disability			
		Trained	Assessed	Certified	Placed	Trained	Assessed	Certified	Placed	Trained	Assessed	Certified	Placed
1.0	19-20	105	105	105	10								
1.0	20-21	292	292	218	101								
1.0	21-22	107	107	106	-								

Applicable for revised qualifications only, data to be provided year-wise for past 3 years.

Note: Placement Data is shared ONLY for STT, remaining candidates were in RPL

List Schemes in which the previous version of Qualification was implemented:

1.
2.

Content availability for previous versions of qualifications:

☒ Participant Handbook ☐ Facilitator Guide ☐ Digital Content ☐ Qualification Handbook ☐ Any Other:

Languages in which Content is available: English

Annexure: Blended Learning

Blended Learning Estimated Ratio & Recommended Tools:

S. No.	Select the Components of the Qualification	List Recommended Tools – for all Selected Components	Offline : Online Ratio
1	☐Theory/ Lectures - Imparting theoretical and conceptual knowledge	LCD, Projector, Laptop, MSOffice Suite, Flipchart, whiteboard, Markers, wi-fi connectivity	100:0
2	☐Imparting Soft Skills, Life Skills, and Employability Skills /Mentorship to Learners	LCD, Projector, Laptop, MSOffice Suite, Flipchart, whiteboard, Markers, wi-fi connectivity	100:0
3	☐Showing Practical Demonstrations to the learners	LCD, Projector, Laptop, MSOffice Suite, various tools and software, computer camera, computer speakers, wi-fi connectivity	100:0
4	☐Imparting Practical Hands-on Skills/ Lab Work/ workshop/ shop floor training	Computer systems for all students, printers, wi-fi connectivity	100:0
5	☐Tutorials/ Assignments/ Drill/ Practice	Learning management system	100:0
6	☐Proctored Monitoring/ Assessment/ Evaluation/ Examinations	Online assessment portal, tablet/desktop/laptop/mobile for each student	100:0
7	☐On the Job Training (OJT)/ Project Work Internship/ Apprenticeship Training	Access to industry partners in relevant field	100:0

Annexure: Detailed Assessment Criteria

Detailed assessment criteria for each NOS/Module are as follows:

NOS/Module Name	Assessment Criteria for Performance Criteria/Learning Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
MEP/N7301, v3: Identify type of fire and response required	*Assess fire and hazards*	15	33		
	PC1. monitor fire alarm systems and interpret alarm indicators	-	-		
	PC2. reach location of fire immediately on receiving intimation of fire	-	-		
	PC3. identify fire points, fire alarms, location of hydrants, etc. in the area	-	-		
	PC4. follow communication sequence and procedures as per protocol for fire intimation	-	-		
	PC5. identify fire associated hazards in the assigned area	-	-		
	PC6. maintain log of incidents	-	-		
	Select appropriate response and equipment required	15	37		
	PC7. identify response to the fire as per the level and type of fire and hazard situation	-	-		
	PC8. identify equipment required for fire- fighting as per the type of response selected as well as availability	-	-		
	PC9. inform authorized personnel about the fire response suggestion as per organisational protocol	-	-		
	PC10. mobilise resources as per procedures for emergency response	-	-		
	PC11. maintain records and documents as per organizational procedure	-	-		
	Total Marks	**30**	**70**		
MEP/N7302, v3: Carry out first-aid firefighting using portable extinguishers	*Manage and/or control fire with portable fire extinguishers*	30	70		
	PC1. select suitable equipment for first-aid fire- fighting as per type of fire. First-aid fire-fighting equipment: portable fire-extinguishers, wet blankets, sand-bucket etc.	-	-		
	PC2. extinguish small fires using suitable fire- fighting equipment	-	-		
	PC3. use available fire-fighting equipment to confine and control fire	-	-		
	PC4. contact fire-brigade about large fires and provide adequate information	-	-		
	PC5. raise fire-alarm and give instructions on reaching the safe meeting point/fire assemble point	-	-		
	PC6. secure area of immediate emergency	-	-		
	PC7. remove machinery and equipment from an area, if safe to do so	-	-		
	PC8. identify smoke inhalation danger points and bottlenecks in rescue operations	-	-		

	PC9. follow correct protocol and procedures for evacuation and removal of items	-	-		
	PC10. maintain records and reports as required	-	-		
	PC11. file incident report in the right format with the appropriate authority	-	-		
	Total Marks	**30**	**70**		
MEP/N7303, v3: Respond to the fire incident using firefighting systems	*Operate various firefighting systems*	10	23		
	PC1. identify different types of hose, hose appliances, hose tools, connectors, breechings, nozzles and adapters	-	-		
	PC2. identify fixed fire-fighting systems, foam making equipment and monitors	-	-		
	PC3. identify automatic fire detection and alarm systems	-	-		
	PC4. operate hoses and hand lines effectively during firefighting as per standard procedure	-	-		
	PC5. perform rolling of hose in various fashion as per standard procedure	-	-		
	PC6. use hollow jet, spray, power jet, etc. as per the requirement of the fire situation	-	-		
	PC7. operate manual, semi-automatic and automatic fire fighting systems as per the requirement of the fire situation while adhering to standard procedure	-	-		
	PC8. operate nozzles and valves to control water as per as per the requirement of the fire situation	-	-		
	PC9. operate hand controlled and non-hand controlled firefighting equipment	-	-		
	Respond to fires, hazards and other emergencies	12	26		
	PC10. locate water supply, distribution system, hydraulics and pumps and primers	-	-		
	PC11. use proper personal protective equipment (PPE) as per the incident	-	-		
	PC12. locate the place of fire and possible entry points	-	-		
	PC13. determine method of entry and entry point	-	-		
	PC14. assess hazards, prevailing smoky and dark conditions and precautions to be taken	-	-		
	PC15. select proper fire extinguishment appliances as per the fire type and environment	-	-		
	PC16. place pumps and lay hoses as per standard procedure	-	-		
	PC17. carry out fire fighting following all necessary precautions and mandatory procedures	-	-		
	PC18. search premises and rescue people following all necessary precautions and mandatory procedures	-	-		
	Carry out salvage	5	15		
	PC19. carry out salvage operation with safety considerations	-	-		
	PC20. implement methods of protecting material goods	-	-		
	PC21. remove damaged and deteriorated equipment and material	-	-		

	PC22. manage flowing and collected water and remove them as much as possible	-	-		
	PC23. replace/replenish fire equipment/material	-	-		
	Material and energy conservation practices	3	6		
	PC24. identify processes where material utilization can be optimized	-	-		
	PC25. ensure appliances and equipment are switched off when not in use	-	-		
	PC26. minimise water wastage through maintenance of hose and other machinery and plugging leaks	-	-		
	Total Marks	**30**	**70**		
MEP/N7304, v3: Carry out rescue operations and administer medical first-aid	*Prepare for rescue operations*	9	22		
	PC1. analyse floor plan at each floor to identify important rescue and evacuation related information like exit routes	-	-		
	PC2. identify locations of assembly/muster points	-	-		
	PC3. identify and assess location of the injured and causalities	-	-		
	PC4. identify and assess the hazards associated with the situation	-	-		
	PC5. plan rescue operation as per situation	-	-		
	PC6. identify suitable rescue equipment available at the assigned premises	-	-		
	PC7. interpret notification and evacuation system	-	-		
	PC8. interpret codes of various emergency alarms and signals	-	-		
	PC9. communicate to the relevant stakeholders and incident command	-	-		
	Carry out rescue and evacuation operations	13	26		
	PC10. use body and respiratory protection gears (PPEs & SCBA) as per standard operating procedures	-	-		
	PC11. use cutting, lifting and other rescue equipment/tools as per standard operating procedures	-	-		
	PC12. apply rescue techniques as per relevant legislation and organisational policies and procedures	-	-		
	PC13. negotiate or avoid hazards and risks safely	-	-		
	PC14. assess situation to determine need for self evacuation or external assistance.	-	-		
	PC15. follow procedures to minimise risk of further injury to injured person	-	-		
	PC16. carry out rescue on land, at heights and in water	-	-		
	PC17. carry out rescue using rope and allied accessories and fall protection equipment	-	-		
	Administer medical first-aid	6	18		
	PC18. assess air way, breathing and circulation in the casualty/ rescued victim	-	-		

	PC19. assess the condition of the casualty and notify about medical emergencies and trauma conditions to concerned person	-	-		
	PC20. provide necessary first aid like CPR and resuscitation (artificial respiration)	-	-		
	PC21. call for professional medical help where own competence is not adequate	-	-		
	PC22. update/brief the health personnel on the condition of the rescue victim in terms of possible smoke inhalation and other fire situation	-	-		
	Gender mainstreaming and inclusivity	2	4		
	PC23. use gender neutral and unbiased statements to calm victims	-	-		
	PC24. respond to special needs of PWD, pregnant women and children	-	-		
	Total Marks	**30**	**70**		
MEP/N7305, v3: Inspect installed fire safety equipment and systems and ensure their operational readiness	*Inspect fire safety equipment and systems*	40	60		
	PC1. prepare testing and inspection schedule	-	-		
	PC2. identify the parts and components of the first-aid fire-fighting equipment available and their parts and components	-	-		
	PC3. identify different types of hose, hose appliances, hose tools, connectors, breechings, nozzles and adapters	-	-		
	PC4. identify different tools and special gears used by firefighter	-	-		
	PC5. interpret working of fire and foam tenders	-	-		
	PC6. specify parameters to be inspected to ensure operational readiness of fire safety equipment and systems	-	-		
	PC7. prepare an inventory of fire safety equipment and systems in assigned area and tally with records	-	-		
	PC8. examine condition of fixed fire-fighting systems, foam making equipment and monitors (Condition: proper functioning, availability of consumables as per prescribed levels, cleanliness and properly maintained, proper storage, etc)	-	-		
	PC9. evaluate automatic fire detection and alarm systems	-	-		
	PC10. store safety equipment and systems at station level as per manufacturer's guidelines	-	-		
	PC11. report tools and equipment deterioration and damages to appropriate authority	-	-		
	PC12. submit testing report to authorized person				
	Total Marks	**40**	**60**		
	Maintain a safe work area	15	21		

MEP/N7306, v3: Maintain health and safety of self and others as a firefighter	PC1. identify and report risks and hazards at the workplace (Risks and Hazards: Fire, Electric short circuit, electric shock and electrocution, Medical emergency, Inflammable & toxic liquid/ gases, Accidents, Flooding, Oil and lubricant spills in the premises, Malfunctioning elevators, escalators, staircase and ladders, Ventilation and suffocation, Improper use of safety gear and non-adherence to safety norms, lack of hygiene and sanitation, etc.)	-	-		
	PC2. carry out tasks to ensure safety of workplace in line with organisational procedures and within limits of authority	-	-		
	PC3. keep emergency and escape routes free from obstructions	-	-		
	PC4. report violation to appropriate authority in a timely manner where violation is not addressable within limits of own authority,	-	-		
	PC5. wear personal safety gear and clothing as per organisational procedure	-	-		
	PC6. report to superiors and emergency service organisations for assistance in the event of emergencies Emergency Service Organizations: Security team and sub-unit; police and emergency services	-	-		
	Respond to incidents affecting self and others safety	9	14		
	PC7. assess and respond for life safety of self and others	-	-		
	PC8. practice safety steps in an emergency	-	-		
	PC9. use body protection and respiratory protection gear	-	-		
	PC10. ensure self and others safety keeping in view basic industrial safety management	-	-		
	Maintain good personal health, hygiene and habits	16	25		
	PC11. perform physical exercises and activities (commensurate with age) regularly	-	-		
	PC12. maintain good personal hygiene and habits as per organisational and professional standards	-	-		
	PC13. maintain own professional standards at work by avoiding alcohol, tobacco,drugs and other intoxicants	-	-		
	PC14. follow good and safe practices of personal behaviour to guard against sexually transmitted diseases and infectious diseases.	-	-		
	PC15. maintain dietary control	-	-		
	PC16. undergo regular medical and physical check-up	-	-		
	PC17. practice proper respiratory hygiene and hand washing	-	-		

	PC18. follow correct sanitizing practices where necessary as per standard operating procedures	-	-		
	Total Marks	**40**	**60**		
MEP/N7307, v3: Work effectively in a team as a firefighter	*Communicate effectively in a team*	10	25		
	PC1. ensure instructions received are clearly understood, acknowledged and implemented	-	-		
	PC2. relay instructions clearly, concisely and accurately to co-workers and obtain confirmation of understanding	-	-		
	PC3. identify organisational priorities and key assets that have to be kept in mind during an emergency situation by discussing with stakeholders and seniors	-	-		
	PC4. identify need for additional support as per work load and communicate it clearly to appropriate person	-	-		
	PC5. participate with team members in mock fire and emergency drills	-	-		
	PC6. follow established protocol for working in a team during emergency situations	-	-		
	PC7. identify signs of stress in self and team members and take action to manage it	-	-		
	PC8. give and receive instructions concisely and clearly	-	-		
	PC9. seek and provide responses from and to, other team members in a constructive way	-	-		
	PC10. follow organisational procedures and standards relating to conduct and dress code at the workplace	-	-		
	Interact effectively with people during an emergency	12	29		
	PC11. raise alarm/ make announcement/ speak over phone/ radio clearly, coherently and calmly	-	-		
	PC12. receive fire/ emergency calls with alertness and promptness	-	-		
	PC13. give clear, coherent instructions to people in a calm manner	-	-		
	PC14. instruct and guide occupants of premises as per the plan	-	-		
	PC15. guide municipal fire and emergency service personnel	-	-		
	PC16. implement crowd control procedures as per organisational protocol	-	-		
	PC17. take measures to reduce confusion, lower emotional stress and organise people as per instructions	-	-		
	PC18. deal with conflict in a calm manner as per established protocol	-	-		

	Operate communications systems and equipment	8	16		
	PC19. use communications system correctly to facilitate transmission and reception (Communications equipment and techniques: Verbal communications and voice procedures, are selected to best meet the task, context and needs of the situation, etc.)	-	-		
	PC20. operate equipment safely to support communications as per organisational policies and procedures	-	-		
	PC21. inspect communications equipment to ensure operational readiness	-	-		
	PC22. transmit and receive communications concisely and clearly to facilitate accurate reception of the message as per organisational policies and procedures	-	-		
	Total Marks	**30**	**70**		
DGT/VSQ/N0102, v1: Employability Skills (60 Hours)	*Introduction to Employability Skills*	1	1		
	PC1identify employability skills required for jobs in various industries	-	-		
	PC2 identify and explore learning and employability portals	-	-		
	Constitutional values – Citizenship	1	1		
	PC3 recognize the significance of constitutional values, including civic rights and duties, citizenship, responsibility towards society etc. and personal values and ethics such as honesty, integrity, caring and respecting others, etc.	-	-		
	PC4 follow environmentally sustainable practices	-	-		
	Becoming a Professional in the 21st Century	2	4		
	PC5 recognize the significance of 21st Century Skills for employment	-	-		
	PC6 practice the 21st Century Skills such as Self- Awareness, Behaviour Skills, time management, critical and adaptive thinking, problem-solving, creative thinking, social and cultural awareness, emotional awareness, learning to learn for continuous learning etc. in personal and professional life	-	-		
	Basic English Skills	2	3		
	PC7 use basic English for everyday conversation in different contexts, in person and over the telephone	-	-		
	PC8 read and understand routine information, notes, instructions, mails, letters etc. written in English	-	-		

	PC9 write short messages, notes, letters, e-mails etc. in English	-	-		
	Career Development & Goal Setting	1	2		
	PC10 understand the difference between job and career	-	-		
	PC11prepare a career development plan with short- and long-term goals, based on aptitude	-	-		
	Communication Skills	2	2		
	PC12 follow verbal and non-verbal communication etiquette and active listening techniques in various settings	-	-		
	PC13 work collaboratively with others in a team	-	-		
	Diversity & Inclusion	1	2		
	PC14 communicate and behave appropriately with all genders and PwD	-	-		
	PC15 escalate any issues related to sexual harassment at workplace according to POSH Act	-	-		
	Financial and Legal Literacy	2	3		
	PC16 select financial institutions, products and services as per requirement	-	-		
	PC17 carry out offline and online financial transactions, safely and securely	-	-		
	PC18 identify common components of salary and compute income, expenses, taxes, investments etc	-	-		
	PC19 identify relevant rights and laws and use legal aids to fight against legal exploitation	-	-		
	Essential Digital Skills	3	4		
	PC20 operate digital devices and carry out basic internet operations securely and safely	-	-		
	PC21 use e- mail and social media platforms and virtual collaboration tools to work effectively	-	-		
	PC22 use basic features of word processor, spreadsheets, and presentations	-	-		
	Entrepreneurship	2	3		
	PC23 identify different types of Entrepreneurship and Enterprises and assess opportunities for potential business through research	-	-		

	PC24 develop a business plan and a work model, considering the 4Ps of Marketing Product, Price, Place and Promotion	-	-		
	PC25 identify sources of funding, anticipate, and mitigate any financial/ legal hurdles for the potential business opportunity	-	-		
	Customer Service	1	2		
	PC26 identify different types of customers	-	-		
	PC27 identify and respond to customer requests and needs in a professional manner.	-	-		
	PC28 follow appropriate hygiene and grooming standards	-	-		
	Getting ready for apprenticeship & Jobs	2	3		
	PC29 create a professional Curriculum vitae (Résumé)	-	-		
	PC30 search for suitable jobs using reliable offline and online sources such as Employment exchange, recruitment agencies, newspapers etc. and job portals, respectively	-	-		
	PC31 apply to identified job openings using offline /online methods as per requirement	-	-		
	PC32 answer questions politely, with clarity and confidence, during recruitment and selection	-	-		
	PC33 identify apprenticeship opportunities and register for it as per guidelines and requirements	-	-		
	Total Marks	**20**	**30**		

Annexure: Assessment Strategy

Assessment system Overview

- MEPSC will certify the learners. The assessor has to pass an online assessment of theoretical knowledge of the job role and be approved by MEPSC.
- The assessment will have both theory and practical components in a 40:60 ratio.
- While theory assessment is summative and a written exam; practical will involve demonstrations of applications and presentations of procedures and other components. Practical assessment will also be summative.

Testing Environment

- The training partner has to share the batch start date and end date, the number of trainees and the job role. Assessment will be fixed for a day after the end date of training. It could be the next day or later. Assessment will be conducted at the training venue.
- The room where the assessment is conducted will be set with proper seating arrangements with enough space to prevent copying.
- A question bank of theory and practicals will be prepared by the assessment agency and approved by MEPSC. From this set of questions, the assessment agency will prepare the question paper. Theory testing will include multiple choice questions, pictorial questions, etc. which will test the trainee on theoretical knowledge of the subject.
- The theory and practical assessments will be carried out on the same day. If the number of candidates is many, more assessors and additional venues will be organized on the same day as the assessment.
- The presentation will be one mode of assessment so computers and an LCD projector will be available for assessment. Viva will be used to gauge trainees' confidence and correct knowledge in handling assessment job situations.
- The question paper will be pre-loaded onto the computer, and it will be in the language requested by the training partner.

Assessment Quality Assurance Framework

- Assessors must go through an orientation program organized by the Assessment Agency. The training would give an overview to the assessors on the overall framework of QP evaluation. The assessor shall be given a NOS and PC-level overview of each QP as applicable. The overall structure of the assessment and objectivity of the marking scheme will be explained to them.
- The giving of marks will be driven by an objective framework which will maintain the standardization of the marking scheme.
- In the case of many candidates to be accommodated in one venue for theory assessment, caution is taken not to let the candidates who competed test meet those who have not. Once the first batch has moved out of the knowledge-based assessment area, the second batch will be taken from the main waiting area and seated in the respective seats for their knowledge-based assessment.
- For practical assessment, the instructions for taking the test are written on the board in the lab or shared with the candidates verbally.
- The assessment will be video recorded and submitted to MEPSC. The training partner will also intimate the time of arrival of the assessor and time of leaving the venue. The assessor carries a tablet which is geotagged. This allows MEPSC to additionally track this.

Methods of Validation

- Unless the trainee is registered, the person cannot undergo assessment. To further ensure that the person registered is the person appearing for assessment, ID verification will be carried out. Adhar card number is part of registering the candidate for training. This will form the basis of further verification during the assessment. Unless the candidate's name is registered, the person cannot take the test.

- The assessor conducts the assessment as per the assessment guidelines.
- The assessor carries a tablet with the loaded questions. This tablet is geotagged so it is monitored to check their arrival and completion of assessment.
- A video of the practical session is prepared and submitted to MEPSC.
- Random spot checks/audit is conducted by MEPSC-assigned persons to check the quality of the assessment.
- The assessment agency will be responsible for putting details in SID.
- MEPSC will also validate the data and results received from the assessment agency.

Method of assessment documentation and access

- The assessment agency will upload the result of the assessment in the portal. The data will not be accessible for change by the assessment agency after the upload. The assessment data will be validated by the MEPSC assessment team. After uploading, only MEPSC can access this data. MEPSC approves the results within a week and uploads them on SID.

Annexure: Acronym and Glossary

Acronym

Acronym	Description
AA	Assessment Agency
AB	Awarding Body
ISCO	International Standard Classification of Occupations
NCO	National Classification of Occupations
NCrF	National Credit Framework
NOS	National Occupational Standard(s)
NQR	National Qualification Register
NSQF	National Skills Qualifications Framework
OJT	On the Job Training

Glossary

Term	Description
National Occupational Standards (NOS)	NOS define the measurable performance outcomes required from an individual engaged in a particular task. They list down what an individual performing that task should know and also do.
Qualification	A formal outcome of an assessment and validation process which is obtained when a competent body determines that an individual has achieved learning outcomes to given standards
Qualification File	A Qualification File is a template designed to capture necessary information of a Qualification from the perspective of NSQF compliance. The Qualification File will be normally submitted by the awarding body for the qualification.
Sector	A grouping of professional activities on the basis of their main economic function, product, service or technology.
Long Term Training	Long-term skilling means any vocational training program undertaken for a year and above.