



QUALIFICATION FILE

FIRE SAFETY OFFICER

- 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: 5

Submitted By:

SAFETY SKILL DEVELOPMENT FOUNDATION

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Section 1: Basic Details

1.	Qualification Name	Fire Safety Officer																						
2.	Sector/s	Hydrocarbon, Iron & steel, Mining, Power, Automotive, Construction, Chemical & Petrochemical, and others.																						
3.	Type of Qualification: <input checked="" type="checkbox"/> New <input type="checkbox"/> Revised <input type="checkbox"/> Has Electives/Options <input type="checkbox"/> OEM	NQR Code & version of existing/previous qualification: <i>(change to previous, once approved)</i>	Qualification Name of existing/previous version:																					
4.	a. OEM Name b. Qualification Name <i>(Wherever applicable)</i>																							
5.	National Qualification Register (NQR) Code &Version <i>(Will be issued after NSQC approval)</i>	QC-05-CO-02969-2024-V1-SSDF	6. NCrF/NSQF Level: 5																					
7.	Award (Certificate/Diploma/Advance Diploma/ Any Other <i>(Wherever applicable specify multiple entry/exits also & provide details in annexure)</i>	Certificate																						
8.	Brief Description of the Qualification	A Fire Safety Officer is responsible for developing and implementing fire safety policies and procedures, identifying fire hazards, conducting fire risk assessments, training employees and ensuring safety of people and property against fire hazards. The officer is responsible to ensure compliance with fire safety regulations & codes, conduct fire safety inspection, investigate fire incidents, and develop emergency response plans, fire exits and fire drills.																						
9.	Eligibility Criteria for Entry for Student/Trainee/Learner/Employee	a. Entry Qualification & Relevant Experience: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">S. No.</th> <th style="width: 50%;">Academic/Skill Qualification (with Specialization - if applicable)</th> <th style="width: 40%;">Required Experience (with Specialization - if applicable)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Completed 4-year UG with science</td> <td>1</td> </tr> <tr> <td>2</td> <td>Completed 3-year UG with science</td> <td>2</td> </tr> <tr> <td>3</td> <td>Completed 3-year diploma after 10th</td> <td>3</td> </tr> <tr> <td>4</td> <td>Completed 2 year NTC after 10th</td> <td>4</td> </tr> <tr> <td>5</td> <td>Previous relevant qualification of NSQF level 4.5</td> <td>1.5</td> </tr> <tr> <td>6</td> <td>Previous relevant qualification of NSQF level 4</td> <td>3</td> </tr> </tbody> </table>		S. No.	Academic/Skill Qualification (with Specialization - if applicable)	Required Experience (with Specialization - if applicable)	1	Completed 4-year UG with science	1	2	Completed 3-year UG with science	2	3	Completed 3-year diploma after 10th	3	4	Completed 2 year NTC after 10th	4	5	Previous relevant qualification of NSQF level 4.5	1.5	6	Previous relevant qualification of NSQF level 4	3
S. No.	Academic/Skill Qualification (with Specialization - if applicable)	Required Experience (with Specialization - if applicable)																						
1	Completed 4-year UG with science	1																						
2	Completed 3-year UG with science	2																						
3	Completed 3-year diploma after 10th	3																						
4	Completed 2 year NTC after 10th	4																						
5	Previous relevant qualification of NSQF level 4.5	1.5																						
6	Previous relevant qualification of NSQF level 4	3																						

		b. Age- 18 Years				
10. Credits Assigned to this Qualification, Subject to Assessment (as per National Credit Framework (NCrF))	20	11. Common Cost Norm Category (I/II/III) (wherever applicable): I				
12. Any Licensing requirements for Undertaking Training on This Qualification (wherever applicable)	No					
13. Training Duration by Modes of Training Delivery (Specify Total Duration as per selected training delivery modes and as per requirement of the qualification)	<input checked="" type="checkbox"/> Offline <input type="checkbox"/> Online <input type="checkbox"/> Blended					
	Training Delivery Modes	Theory (Hours)	Practical (Hours)	OJT Mandatory (Hours)	OJT Recommended (Hours)	Total (Hours)
	Classroom (offline)	300	210	90	-	600
	Online	-	-	-	-	-
<i>(Refer Blended Learning Annexure for details)</i>						
14. Aligned to NCO/ISCO/ISIC Code/s (if no code is available mention the same)	NCO-2015/2141.2600 : Occupational Health and Safety Specialist.					
15. Progression path after attaining the qualification (Please show Professional and Academic progression)	Vertical Progression Fire Safety Manager L 6 Safety Consultant/Advisor L 7 Horizontal Progression Industrial Hygienist L 5					
16. Other Indian languages in which the Qualification & Model Curriculum are being submitted	English, Hindi					
17. Is similar Qualification(s) available on NQR-if yes, justification for this qualification	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No URLs of similar Qualifications:					
18. Is the Job Role Amenable to Persons with Disability	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If "Yes," specify applicable type of Disability:					
19. How Participation of Women will be Encouraged	Women will be encouraged to join.					
20. Are Greening/ Environment Sustainability Aspects Covered	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					

	<i>(Specify the NOS/Module which covers it)</i>	
21.	Is Qualification Suitable to be Offered in Schools/Colleges	Schools <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Colleges <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
22.	Name and Contact Details of Submitting / Awarding Body SPOC <i>(In case of CS or MS, provide details of both Lead AB & Supporting ABs)</i>	Name: Anand Kumar Singh Email: aksingh@ssdfindia.org No.: +91-8505955506 Website: www.ssdfindia.org Contact
23.	Final Approval Date by NSQC: 27-08-2024	24. Validity Duration: 3 Years 25. Next Review Date: 27-08-2027

NSQC Approved

Section 2: Module Summary

NOS/s of Qualifications

(In exceptional cases these could be described as components)

Mandatory NOS/s:

Specify the training duration and assessment criteria at NOS/ Module level. For further details refer to the curriculum document.

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.	Understanding of Fire Accidents.	SSD/N1101 v 1.0	Core	5	4	60	45	15	-	120	50	50	-	-	100	20%
2.	Fire Accident Prevention Methodologies	SSD/N1102 v 1.0	Core	5	2	30	15	15	-	60	50	50	-	-	100	10%
3.	Fire Prevention, Fire Extinguishing technique & Fire Extinguisher	SSD/N1103 v 1.0	Core	5	3	45	30	15	-	90	50	50	10	-	110	15%
4.	Fire safety equipments, Fire alarms & PPE	SSD/N1104 v 1.0	Core	5	3	45	30	15	-	90	50	50	10	-	110	15%
5.	Emergencies, Rescue, Firefighting & Fire Evacuation Plan	SSD/N1105 v 1.0	Core	5	4	60	40	20	-	120	50	50	20	-	120	20%
6.	Plan & Organize Fire Emergency protocols	SSD/N1106 v 1.0	Core	4.5	2	30	20	10	-	60	50	50	10	-	110	10%
7.	Employability Skills	DGT/VSQ/N01 02	Non-Core	4	2	30	30	-	-	60	25	25	-	-	50	10%
Duration (in Hours) / Total Marks				-	20	300	210	90	-	600	325	325	50	-	700	100%

Optional NOS/s: No

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.	N/A															
Duration (in Hours) / Total Marks																

Assessment - Minimum Qualifying Percentage

Please specify **any one** of the following:

Minimum Pass Percentage – Aggregate at qualification level: 50% (Every Trainee should score specified minimum aggregate passing percentage at qualification level to successfully clear the assessment.)

Minimum Pass Percentage – NOS/Module-wise: 35% (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)	UG/PG in relevant field with 4 years’ experience UG in any discipline / Diploma in relevant field with 7 years’ experience ITI/12TH with 12 years’ experience
2.	Master Trainer’s Qualification and experience in the relevant sector (in years) (as per NCVET guidelines)	UG/PG in relevant field with 5 years’ experience UG in any discipline / Diploma in relevant field with 8 years’ experience ITI/12TH with 13 years’ experience
2.	Tools and Equipment Required for Training	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (If “Yes,” details to be provided in Annexure)
3.	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)	UG/PG in relevant field with 4 years' experience UG in any discipline / Diploma in relevant field with 7 years' experience ITI/12TH with 12 years' experience
2.	Proctor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines)	UG/PG in relevant with 3 years' experience UG in any discipline / Diploma in relevant field with 6 years' experience ITI/12TH with 11 years' experience
3.	Lead Assessor's/Proctor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines)	UG/PG in relevant field with 5 years' experience UG in any discipline / Diploma in relevant field with 8 years' experience ITI/12TH with 13 years' experience
4.	Assessment Mode (Specify the assessment mode)	Offline and online
5.	Tools and Equipment Required for Assessment	<input checked="" type="checkbox"/> Same as for training <input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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): No
4.	Number of Industry validation provided: 30
5.	Estimated nos. of persons to be trained and employed: 45,000
6.	Evidence of Concurrence/Consultation with Line Ministry/State Departments: "No"

Section 6: Annexure & Supporting Documents Checklist

Specify Annexure Name / Supporting document file name.

1.	Annexure: NCrf/NSQF level justification based on NCrf level/NSQF descriptors <i>(Mandatory)</i>	Yes
2.	Annexure: List of tools and equipment relevant for qualification <i>(Mandatory, except in case of online course)</i>	Yes
3.	Annexure: Detailed Assessment Criteria <i>(Mandatory)</i>	Yes
4.	Annexure: Assessment Strategy <i>(Mandatory)</i>	Yes
5.	Annexure: Blended Learning <i>(Mandatory, in case selected Mode of delivery is "Blended Learning")</i>	No
6.	Annexure: Multiple Entry-Exit Details <i>(Mandatory, in case qualification has multiple Entry-Exit)</i>	Yes
7.	Annexure: Acronym and Glossary <i>(Optional)</i>	Yes
8.	Supporting Document: Model Curriculum <i>(Mandatory – Public view)</i>	Yes
9.	Supporting Document: Career Progression <i>(Mandatory - Public view)</i>	Yes
10.	Supporting Document: Occupational Map <i>(Mandatory)</i>	Yes
11.	Supporting Document: Assessment SOP <i>(Mandatory)</i>	Yes
12.	Any other document you wish to submit:	No

Annexure: Evidence of Level

Nacre/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
<p>Professional Theoretical Knowledge/Process</p>	<p>The job holder requires a wide range of specialized theoretical & practical skill, experience, and technical knowledge to perform the task as Fire Safety officer in accordance with the applicable standards, regulations, and procedures in respect of followings.</p> <ul style="list-style-type: none"> ● Accident prevention ● Fire safety. ● Statutory compliances 	<p>The job holder requires a wide range of specialized theoretical & practical skills & understanding which may or may not be routine.</p>	<p>5</p>
<p>Professional and Technical Skills/ Expertise/ Professional Knowledge</p>	<p>Job holder is required to ensure fire safety process compliances, process & drills as per standing order procedures, as per standards, regulation, and norms.</p> <p>The job holder will have very good factual & theoretical knowledge of fire prevention plan & procedure and statutory requirements, implementation processes, steps involved to ensure safety of employees, workers, and assets of the organization.</p>	<p>The job holder should have very good factual & theoretical knowledge & principles in broad context of safety requirements of the organization and various steps involved such as:</p> <ul style="list-style-type: none"> ● Fire hazard identification, categorization, and control methods. ● Accident Prevention Measures. ● Statutory and Legal requirements ● Indian and basic international standards ● Planning and methodology 	<p>5</p>
<p>Employment Readiness & Entrepreneurship Skills & Mind-set/Professional Skill</p>	<p>The job holder is expected to have cognitive & practical skills to ensure fire safety, generate solutions to specific issues related to safety and ability to ensure compliance of the safety norms and</p>	<p>The outcomes expected from the job holder require cognitive & practical skills to ensure fire safety of employees & workers, suggest solutions to specific problems. It also needs to exhibit proactive cooperation and collaboration with the other teams &</p>	<p>5</p>

	<p>measures as per SOP and deployment of fire safety equipment.</p>	<p>members for effective implementation of safety needs & deployment of safety equipment.</p> <ul style="list-style-type: none"> ● Effective communication, initiative, flexibility, and an ability to induce collaboration. ● Exhibits integrity, interpersonal understanding, and self-confidence. ● Utilizes a system. ● Systematic approach to apply knowledge in proactive guidance and problem solving. ● Facilitate quality of work through timely communication, suggestions, deployment, and guidance. <p>Suggest practical solutions to problems</p>	
<p>Broad Learning Outcomes/Core Skill</p>	<p>The job holder is expected to analyze the risks & fire hazards, categorize, and find suitable methods for prevention and deploy the equipment's and ensure processes & statutory requirements. He is also expected to have core skills to demonstrate teamwork, time management, effective guidance, and communication to ensure compliance to set standards and procedures.</p>	<p>The job holder will require mathematical analysis to arrive at the methods, equipment & process compliance needs & checks. He is also expected to demonstrate;-</p> <ul style="list-style-type: none"> ● Teamwork ● Time management ● Effective guidance and communication ● Ensure compliance with standards. ● Ensure process compliance. <p>Constructive feedback for improvement to all stakeholders.</p>	<p>5</p>

<p>Responsibility</p>	<p>The Job holder carries out fire safety compliance in the organization and is directly responsible to ensure compliance of all applicable standards, regulations and procedures by himself and the subordinates working under him. He is also responsible for the subordinates under him and following activities:-</p> <ul style="list-style-type: none"> • Fire drills, evacuation, and records preparation & submission. • Timely feedback and guidance and compliances <p>Responsibility for continual learning and development of self</p>	<p>The Job holder is directly responsible for his work in carrying out implementation of safety procedures and ensuring compliances. He is responsible for his work & learning and subordinates working under him. He needs to have adequate knowledge of the standard, safety measures and the statutes & standards.</p>	<p>5</p>
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Annexure: Tools and Equipment (Lab Set-Up)

List of Tools and Equipment

Batch Size: 30

No	Tools/Equipment Name	Specifications	Quantity for specified batch size
•	Fire safety equipment, Water fire extinguisher	Nos	1
•	Stored pressure type fire extinguisher	Nos	1
•	Chemical foam type fire extinguisher	Nos	1
•	Mechanical foam type fire extinguisher	Nos	1
•	CO2 type fire extinguisher	Nos	1
•	BC type , ABC type	Nos	1
•	Extension ladder;	Nos	1

No	Tools/Equipment Name	Specifications	Quantity for specified batch size
•	All types of branches and Nozzles	Nos	5
•	Fire hoses	Nos	1
•	First aid box	Nos	1
•	All types of small gears	Nos	5
•	Breathing apparatus (Negative and Positive)	Nos	5
•	Gas cylinders	Nos	1
•	Steel back plates	Nos	2
•	Face mask	Nos	5
•	Portable fire pump/TFP	Nos	1
•	All types of coupling;	Nos	5
•	Hydrant –Stand pipe type;	Nos	1
•	Fire trays;	Nos	1
•	Manual call point;	Nos	1
•	Entry suit / Proximity suit;	Nos	1
•	Hose reel system;	Nos	1
•	Hose box	Nos	1
•	Suction hose;	Nos	1

No	Tools/Equipment Name	Specifications	Quantity for specified batch size
•	Suction wrench	Nos	1
•	Metal strainer;	Nos	1
•	Ropes 100 ft.;	Nos	1
•	PPE;	Nos	15
•	Cooling vest;	Nos	2
•	Gum boost	Nos	2

Classroom Aids

The aids required to conduct sessions in the classroom are:

1. Black/White board
2. Marker
3. Projector
4. Computer with relevant software

Annexure: Industry Validations Summary

Provide summary information of all the industry validations in the table. This is not required for OEM qualifications.

S. No	Organization Name	Representative Name	Designation	Contact Address	Contact Phone No	E-mail ID	LinkedIn Profile (if available)
1	Irrigation Department Government of UP	Er. Manoj Kumar Arya	Junior Engineer	Aligarh, Uttar Pradesh	9412818118	-	-

2	Shaheed Bhagat Singh College, University of Delhi	Dr. Chandrakanta	Former Faculty	Delhi University, New Delhi	-	chandrakantajnu@gmail.com	-
3	Surya Contractors	Mr. Rajendra Kumar	Billing Engineer (Civil)	Amritsar, Punjab	8802661569	-	-
4	Accurate Institute of Management and Technology	Dr. S L Rajput	Associate Professor	Greater Noida, Uttar Pradesh	807626549	-	-
5	Pratham education foundation	Mr. Ashutosh Sharma Mr. Raman Singh	Program Associate (Civil)	Noida, Uttar Pradesh	7982315949 7827582148	-	-
6	CPWD, New Delhi	Mr. Bharat Singh Chauhan	Junior Engineer (Civil)	O/A Assistant Engineer, 4/N, CPWD Shahjahan road, New Delhi	-	-	-
7	UPPCL, Lucknow	Ms. Sandhya Mishra	Junior Engineer (Civil)	UPPCL, Left Bank Gomti Barrage, Gomti Nagar, Lucknow, UP	-	-	-
8	Deepam Contractors Pvt. Ltd.	Mr. R. B. Singh	Director	H-156 Beta 2, Greater Noida, UP-203010	7503920973	deepamcontractor@gmail.com	-
9	IIT Guwahati	Dr. Sparsh Johari	Assistant Professor	Indian Institute of Technology, Guwahati	7827060976	sparshjohari@iitg.ac.in	-

10	Ciria India Limited	Mr. Akash Nirvan	Head EHSS	C-116, 2 ND & 3 RD Floor, Sector-2, Noida- 201301, UP	8800377994	Akash.nirvan@morganplc.com	-
11	IIT Roorkee	Mr. Amarjeet	Research Scholar (Dept. of Civil Engg)	Indian Institute of Technology Roorkee, Uttarakhand	7839116059	-	-
12	N.R., Indian Railways	Bishun Dayal Verma	SSE	Carriage workshop, Alam Bagh, Lucknow- Uttar Pradesh	8707481190 9794830451	-	-
13	Larsen & Toubro Limited	Mr. Rahul Sinha	Assistant Construction Manager	NCRTC RRTS Project, Meerut, Uttar Pradesh	-	Rahul.sinhal@intec.com	-
14	Ask EHS engineering & consultants Pvt ltd	Mahesh S Lanjekar	Business Head	Surat, Gujarat	9227695202	Mahesh.lanjekar@askehsPMC.com	-
15	Symplico	Ms. Lata Rawat	Manager	Surat, Gujarat	9484825000	-	-
16	Pooja Enterprises	Mr. Karan Aggarwal	General Manager	Surat, Gujarat	9725348874	-	-
17	Structural Specialties & Projects Pvt Ltd	Mr. Sawant	-	801, Odyssey, Road No. 9, Wagle Estate, Thane (West), Thane, Maharashtra 400604	022 2580 1080	-	-
18	Jobby Industrial Services Pvt Ltd	Mr. B Naik	-	UNIT NO. 25 & 26, NAHUR UDYOG CO-OP SOCIETY LTD. PANDIT M. M. MALVIYA MARG, MULUND	02221675100	-	-

				(W), MUMBAI City MH 400080 IN			
19	Enercore Power Builders	Mr. S Paramasiram	-	351 / 270, 1st Floor, MKN Road, Alandur, Chennai, Tamil Nadu 600016	(949) 732-4400	-	-
20	Munn Engineers & Developers Pvt Ltd	-	-	Ward No. 3, House No: 26, Nadikhandisahi, Phulbani, Gndhamal, Odisha- 762001	-	-	-
21	Micron Electricals	Syed Akbar Ahmed Zaidi Mr. Mohan Rangala	Safety Head EHS Engineer	No.86/E-1,2nd Cross,3rd Main Road, Industrial Suburb,2nd Stage. Yeshwanthpur, BANGALORE – 560 022	9885092841 9515470663	qhseakbar@gmail.com rangalamohanrao@gmail.com	-
22	Tata Project	SK Mohammad Ali Akbar	Safety Officer	Mumbai, Maharashtra, India	9040597712	-	-
23	Reliance Industries Limited	Ravi Ballabh	GM, S&OR-Const. Safety		9725007688	Ravi.ballabh@ril.com	-
24	Signify Innovation India Limited	Pradeep Singh Parhar	Manager Health & Safety	9 th floor, Building 9B, DLF cyber city, Gurugram- Haryana	9814721820	Pradeep.parhar@signify.com	-
25	ASK EHS	Harshit Parikh	Business Development Overseas (HSE Recruitment & Projects)	Surat, Gujarat	6359922897	harshitparikh@askehspmc.com	-

26	JSW	Veerendra Kumar	Safety Consultant			Veerendra.kumar@jsw.in	-
27	Carrier India Limited	Md. Mukaram	Safety Head			md.mukaram@carrier.com	-
28	Kalpataru Group	Lalit Tiwari	President-EHS & Group chief sustainability officer			lalitkumar.tiwari@kalpataru.com	-
29	United Fire & Safety Services	Sandeep Mehta	Owner	GIDC, Industrial estate, makarpura, Vadodara- 390010	6358827798	Usafe.fire@gmail.com	-
30	L&T Limited	Manish Gupta	HSE Head	L&T Energy-Hydrocarbon (HSE), Hazira			

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
2024	300	300	30	30	-	-
2025	500	500	100	100	-	-
2026	800	800	200	200	-	-

Data to be provided year-wise for the 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
N/A													

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

List Schemes in which the previous version of Qualification was implemented: This is a new qualification.

Content availability for previous versions of qualifications: This is a new qualification.

Participant Handbook Facilitator Guide Digital Content Qualification Handbook Any Other:

Languages in which Content is available: Hindi and English

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
SSD/N1101 v 1.0: Understanding of Fire Accidents.	PC-1 Analyze the terms utilized in fire safety such as solid, liquid, and gaseous flammable substances & combustible materials and electrical fires.	5	5	-	-
	PC-2 Differentiate between exothermic and endothermic reactions, determine the oxygen percentage in air, and ascertain the flash point and fire point.	5	5	-	-
	PC-3 Register the various sources that pose fire hazards, including sources that provide fuel for fires and sources that can ignite fires.	5	5	-	-
	PC-4 Identify the Fire triangle & different classes of fire.	10	10	-	-
	PC-5 Identify the common reason for fire accidents and materials & surroundings assisting spread of fire.	10	10	-	-
	PC-6 Decipher transmission of fire, heat transfer by conduction, convection, and radiation.	5	5	-	-
	PC-7 Analyze the four development stages fire- incipient, growth, fully developed and decay.	5	5	-	-

	PC-8 Interview witnesses with an impartial professional who has expertise in conducting interviews to ensure that the information gathered remains unbiased.	5	5	-	-
	NOS Total Marks	50	50	-	-
SSD/N1102 v 1.0: Accident Prevention Methodologies.	PC-1 Recognise basic definitions- incident, accident, Injury, lost time injury, unsafe condition, unsafe Acts, dangerous occurrences, hazards, error, near miss.	5	5	-	-
	PC-2 Analyze theories of accident causation- "Heinrich's Domino theory", "Heinrich 300-29-1 model, "Ferrell's Human Factor Model", "Petersen's Accident/Incident Model" and "Reason's Swiss Cheese Model".	5	5	-	-
	PC-3 Calculate "Frequency rate & Incident rate". Calculate "Lost time case rate".	5	5	-	-
	PC-4 Calculate "DART rate". Calculate "Severity rate".	5	5	-	-
	PC-5 Interpret "Fault tree analysis" and "Event tree analysis".	3	3	-	-
	PC-6 Interpret and carry out "HAZOP- Hazard, operability analysis" and "Job safety analysis".	3	3	-	-
	PC-7 Interpret "Hazard Identification and risk assessment".	3	3	-	-
	PC-8 Analyze the hierarchy of controls, Importance of hierarchy of control & steps in hierarchy of control.	3	3	-	-
	PC-9 Examine the scene and gather information to establish the origin, cause and circumstances of an incident.	4	4		
	PC-10 Perform a real-time risk evaluation and grant access to individuals once the area has been deemed secure.	4	4		
	PC-11 Analyze Maslow's theory of Hierarchical Needs, Hertzberg's two-factor theory and McClelland's theory of needs.	5	5	-	-
	PC-12 Analyze Vroom's Theory of Expectancy, McGregor's theory X and theory Y and Alderfer's ERG theory.	5	5	-	-
	NOS Total Marks	50	50	-	-
SSD/N1103 v 1.0: Fire Prevention, Fire Extinguishing technique & Fire Extinguisher	PC-1 Interpret fire safety principles prevention, detection and communication, occupant protection, containment and extinguishment.	4	4	10	-

	PC-2 Identify fire doors, Automatic Fire Suppression Systems (AFSS) Lightning protections, procedures & SOPs.	3	3	
	PC-3 Prevent fire spread by controlling fuel source, ignition source control and oxygen control.	3	3	-
	PC-4 Interpret principles on which fire extinguishers work: cooling, smothering, starving or by interrupting the combustion process to extinguish the fire..	4	4	-
	PC-5 Analyze different types of extinguishing media-water, foam, dry chemical powder, carbon dioxide.	3	3	-
	PC-6 Analyzes types of fire-fighting equipment, its principle of operation.	3	3	-
	PC-7 Perform extinguishing of fire using PASS technique & operation of fire hydrants.	5	5	-
	PC-8 Implement the placement of fire extinguisher at workplace and learn maintenance of fire extinguisher with the help of checklist.	5	5	-
	PC-9 Demarcate fire zone & Restriction on the construction of buildings in each fire zone.	3	3	-
	PC-10 Implement measures such as prohibition of combustible materials, elimination of open fires, utilization of portable fire extinguishers.	3	3	-
	PC-11 Reduce fire load on concrete, use non-combustible ladders, and construct sheds using fire-retardant materials.	3	3	-
	PC-12 Prepare fire plan based on occupancy type, height, and floor area & install fire resistance requirements.	3	3	-
	PC-13 Install fire fighting equipment & fire detection and alarm systems.	4	4	-

	PC-14 Adhere to Regulations for specific materials & develop Emergency preparedness and evacuation plans.	4	4		-
	NOS Total Marks	50	50	10	-
SSD/N1104 v 1.0: Fire Safety Equipment, Fire alarms & PPE.	PC-1 Recognise fire fighting system design for water hydrants, sprinklers and pressure requirements in fire hydrants.	4	4	10	-
	PC-2 Recognise foam system of fire hydrants & design for foam hydrant system.	4	4		-
	PC-3 Prepare smoke detectors, fire alarm, NFPA72, emergency lighting, flashing lights.	4	4		-
	PC-4 Identify fire hoses, fire buckets, fire and welding blankets, flame orb, sand.	4	4		-
	PC-5 Identify requirement of fire fighting equipment as per IS15683.	4	4		-
	PC-6 Analyze optimum use of smoke detectors, fire alarm, emergency lighting, flashing lights, its location and monitoring.	5	5		-
	PC-7 Identify technological interventions in fire safety like water mist system, online hydrant pressure monitoring, wireless fire detection system etc.	4	4		-
	PC-8 Recognise latest technological development in fire-prevention & detection like, Thermal Imaging & Augmented Reality (AR).	4	4		-
	PC-9 Identify use of PPEs in fire safety – Helmet, turnout gear, gloves & boots etc.	3	3		-

	PC-10 Identify use of SCBA (Self-contained breathing apparatus), respirators, gas masks.	3	3		-
	PC-11 Use and periodically maintain upkeep of PPEs.	3	3		
	PC-12 Implement measures such as storing flammable materials in designated areas, using explosion-proof electrical equipment & fire suppression systems.	4	4		
	PC-13 Ensure proper labeling & handling of hazardous chemicals, ventilation of chemical facilities.	4	4		
	NOS Total Marks	50	50		10
SSD/N1105 v 1.0 : Emergencies, Rescue, Firefighting & Fire Evacuation Plan	PC-1 Analyze emergencies and emergency evacuations.	5	5	20	-
	PC-2 Identify the requirements of escape route as per IS1644..	5	5		-
	PC-3 Plan fire door, emergency directional signages, assembly point, evacuation, evacuation of differently abled, evacuation procedure, role of "Fire Marshals"	5	5		-
	PC-4 Prepare firefighting SOP & drills, equipment deployment, periodical maintenance and mock drills.	4	4		-
	PC-5 Identify local firefighting resources, authority, assistance call from firefighting resources & authorities, communication, assistance to other/neighboring organizations.	3	3		-
	PC-6 Carry out fire fighting drills and fire fighting equipment.	3	3		-
	PC-7 Prepare evacuation & rescue plan and drills, deployment of fire marshals during evacuation & rescue.	5	5		-

	PC-8 Identify responsibility, control & hierarchy in evacuation, evacuation of differently abled, & deployment of fire marshals during evacuation process.	5	5		-
	PC-9 Carry out on emergency evacuation drills, fire exit and assembly areas.	5	5		-
	PC-10 Maintain vehicle as per manufacturer's specification, multipurpose fire extinguishers, and ensure easy recognition & accessibility.	5	5		
	PC-11 Adhere to the codes and regulations regarding automobile fire safety, safe driving and materials transportation.	5	5		
	NOS Total Marks	50	50	20	-
SSD/N1106 v 1.0: Plan & Organize Fire Emergency protocols	PC-1 Plan safety resources, schedules, measures and timelines for readiness as per overall work timelines.	5	5	10	-
	PC-2 Interpret hierarchy of the organization and communication to other team members, co-workers, subordinates & superiors and coordination with other team members.	5	5		-
	PC-3 Identify and allot tasks to subordinates, supervision and coordination among the team members for readiness in sync with overall task & timelines. .	5	5		-
	PC-4 Resource collection, provisioning of resources to team members as per task & timelines.	5	5		-
	PC-5 Communicate & brief to concerned coworkers, subordinates & superiors, provide guidance to subordinate & co-workers for timely and correct completion.	5	5		-
	PC-6 Supervise & monitor progress of work, reporting the progress & completion, preparation of reports & documents.	5	5		-
	PC-7 Set up medical emergency measures, in case of accidents/incidents at workplace.	4	4		-
	PC-8 Set up fire emergency measures as per plans in case of any fire accidents at the workplace.	3	3		-

	PC-9 Set up emergency assembly area, evacuation plan, sign boards and guidance.	3	3		-
	PC-10 Analyze root causes behind major fire accidents happening around India.	5	5		
	PC-11 Incorporate insights gained from major incidents like avoiding unauthorized construction, utilization of non-combustible materials, adherence to safety regulations, and creation of emergency response strategies.	5	5		
	NOS Total Marks	50	50	10	-
DGT/VSQ/N0102: Employability Skills	PC- 1 Identify employability skills required for jobs in various industries	0.5	0.5	-	-
	PC- 2 Identify and explore learning and employability portals	0.5	0.5	-	-
	PC- 3 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.	0.5	0.5	-	-
	PC- 4 Follow environmentally sustainable practices	0.5	0.5	-	-
	PC- 5 Recognize the significance of 21st Century Skills for employment	1.5	1.5	-	-
	PC- 6 Practice the 21st Century Skills such as Self-Awareness, Behavior 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.	1.5	1.5	-	-
	PC- 7 Use basic English for everyday conversation in different contexts, in person and over the telephone.	1	1	-	-
	PC- 8 Read and understand routine information, notes, instructions, mails, letters etc. written in English.	1	1	-	-
	PC- 9 Write short messages, notes, letters, e-mails etc. in English.	1	1	-	-
	PC- 10 Understand the difference between job and career	0.5	0.5	-	-
	PC- 11 Prepare a career development plan with short- and long-term goals, based on aptitude.	1	1	-	-
	PC- 12 Follow verbal and non-verbal communication etiquette and active listening techniques in various settings.	1	1	-	-
	PC- 13 Work collaboratively with others in a team.	1	1	-	-
	PC- 14 Communicate and behave appropriately with all genders and PwD.	0.5	0.5	-	-

PC- 15 Escalate any issues related to sexual harassment at workplace according to POSH Act.	0.5	0.5	-	-
PC- 16 Select financial institutions, products, and services as per requirement.	0.5	0.5	-	-
PC- 17 Carry out offline and online financial transactions, safely and securely.	1	1	-	-
PC- 18 Identify common components of salary and compute income, expenses, taxes, investments etc.	0.5	0.5	-	-
PC- 19 Identify relevant rights and laws and use legal aids to fight against legal exploitation.	0.5	0.5	-	-
PC- 20 Operate digital devices and carry out basic internet operations securely and safely.	1	1	-	-
PC- 21 Use e- mail and social media platforms and virtual collaboration tools to work effectively.	2	2	-	-
PC- 22 Use basic features of word processor, spreadsheets, and presentations.	1	1	-	-
PC- 23 Identify different types of Entrepreneurship and Enterprises and assess opportunities for potential business through research.	1	1	-	-
PC- 24 Develop a business plan and a work model, considering the 4Ps of Marketing Product, Price, Place and Promotion.	1	1	-	-
PC- 25 Identify sources of funding, anticipate, and mitigate any financial/ legal hurdles for the potential business opportunity.	1	1	-	-
PC- 26 Identify different types of customers.	0.5	0.5	-	-
PC- 27 Identify and respond to customer requests and needs in a professional manner.	0.5	0.5	-	-
PC- 28 Follow appropriate hygiene and grooming standards.	0.5	0.5	-	-
PC- 29 Create a professional Curriculum vitae (Résumé).	-	0.5	-	-
PC- 30 Search for suitable jobs using reliable offline and online sources such as Employment exchange, recruitment agencies, newspapers etc. and job portals, respectively.	0.5	-	-	-
PC- 31 Apply to identified job openings using offline /online methods as per requirement.	0.5	0.5	-	-
PC- 32 Answer questions politely, with clarity and confidence, during recruitment and selection.	0.5	-	-	-
PC- 33 Identify apprenticeship opportunities and register for it as per guidelines and requirement.	-	0.5	-	-

	Total Marks	25	25	-	-
Grand Total		325	325	50	-

Annexure: Assessment Strategy

This section includes the processes involved in identifying, gathering, and interpreting information to evaluate the Candidate on the required competencies of the program.

Mention the detailed assessment strategy in the provided template.

<1. Assessment System Overview:

- Batches are assigned to the assessment agencies for conducting the assessment on SIP/Portal or email.
- Assessment agencies send the assessment confirmation to VTP/TC looping Awarding Body(AB)
- Assessment agency deploys the ToA certified Assessor for executing the assessment.
- AB ensures the assessment process & records.

2. Testing Environment:

- Check the assessment location, date, and time.
- Check that the allotted time to the candidates to complete Theory & Practical Assessment is correct.

3. Assessment Quality Assurance levels/Framework:

- Question bank is created by the AA/Subject Matter Experts (SME) and verified by the other SME.
- Questions are mapped to the specified assessment criteria.
- Assessor will be ToA certified & trainer will be ToT Certified

4. Types of evidence or evidence-gathering protocol:

- Time-stamped & geotagged reporting of the assessor from assessment location
- Center photographs with signboards and scheme specific branding

5. Method of verification or validation:

- Surprise visit to the assessment location.
- Method for assessment documentation, archiving, and access
- Soft/Hard copies of the documents are stored.

On the Job:

1. The candidate works for all modules.
2. The candidate must score 50% in assessment to successfully complete the OJT.
3. Tools of Assessment that will be used for assessing whether the candidate is having desired skills, understanding needs & requirements.
 - Report prepared by trainees during OJT.
4. Assessment of task ensure that the candidate can perform all tasks of the job role required:

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 defines 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 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 based on their main economic function, product, service, or technology.
Long Term Training	Long-term skilling means any vocational training program undertaken for a year or above. https://ncvet.gov.in/sites/default/files/NCVET.pdf