



QUALIFICATION FILE – Micro Credentials

< Basics of Fire hazards & safety against fire hazards >

Public Private

Upskilling Dual/Flexi Qualification For ToT For ToA

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

NCrF/NSQF Level: 4

Submitted By:

< SAFETY SKILL DEVELOPMENT FOUNDATION >

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Section 1: Basic Details

1.	Micro Credential-Qualification Name	Basics of Fire hazards & safety against fire hazards										
2.	Sector/s	All sectors										
3.	National Qualification Register (NQR) Code & Version <i>(Will be issued after NSQC approval.)</i>	NM-04-CO-03006-2024-V1-SSDF	4. NCrf/NSQF Level: 4									
5.	Brief Description of the Micro Credential	The MC provides specialized knowledge in fire safety procedures aimed at minimizing fire damage. These encompass evaluation of potential fire risks and measures to prevent the outbreak of uncontrolled fire as well as strategies to contain and mitigate their impact. It also deals with necessary fire safety information, fire drills and compliances.										
6.	Eligibility Criteria for Entry for Students/Trainee/Learner/Employee	<p>a. Entry Qualification & Relevant Experience</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">S. No.</th> <th style="width: 60%;">Academic/Skill Qualification (with specialization- if applicable)</th> <th style="width: 30%;">Relevant Experience (with specialization- if applicable)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>12th grade pass or equivalent</td> <td style="text-align: center;">-</td> </tr> <tr> <td>2</td> <td>Pursuing 12th class</td> <td style="text-align: center;">-</td> </tr> </tbody> </table> <p>b. Age: 16</p>		S. No.	Academic/Skill Qualification (with specialization- if applicable)	Relevant Experience (with specialization- if applicable)	1	12th grade pass or equivalent	-	2	Pursuing 12th class	-
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1	12th grade pass or equivalent	-										
2	Pursuing 12th class	-										
7.	Credits Assigned to this Qualification, Subject to Assessment <i>(as per National Credit Framework (NCrF))</i>	0.25	8. Common Cost Norm Category (I/II/III) <i>(wherever applicable): I</i>									
9.	Any Licensing Requirements/ Prerequisites for Undertaking Training <i>(wherever applicable)</i>	NA										
10.	Expected Outcomes of the Micro Credential	Terminal learning outcomes are: <ul style="list-style-type: none"> ● Recognize any situations, substances, or events that may have the potential 										

		<p>to start a fire or increase the likelihood of a fire occurring.</p> <ul style="list-style-type: none"> ● Evaluate the potential risks associated with the identified hazardous elements. ● Establish the most effective approaches to manage and control the identified risks. ● Ensure precautions, measures against fire hazards & conduct fire drills. ● Execute changes/modifications to the workplace that will efficiently decrease or eliminate the fire hazard. ● Ensure continuous compliance with fire safety regulations through regular assessments. 												
11.	<p>Training Duration by Modes of Training Delivery <i>(Specify Total Duration as per selected training delivery modes and as per requirement of the qualification)</i></p>	<p><input checked="" type="checkbox"/> Offline Only <input type="checkbox"/> Online Only <input type="checkbox"/> Blended</p> <table border="1" data-bbox="1025 759 2033 962"> <thead> <tr> <th>Training Delivery Mode</th> <th>Theory (Hours)</th> <th>Practical (Hours)</th> <th>Total (Hours)</th> </tr> </thead> <tbody> <tr> <td>Classroom (offline)</td> <td>4</td> <td>3.5</td> <td>7.5</td> </tr> <tr> <td>Online</td> <td>-</td> <td>-</td> <td>-</td> </tr> </tbody> </table> <p><i>(Refer Blended Learning Annexure for Details)</i></p>	Training Delivery Mode	Theory (Hours)	Practical (Hours)	Total (Hours)	Classroom (offline)	4	3.5	7.5	Online	-	-	-
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Classroom (offline)	4	3.5	7.5											
Online	-	-	-											
12.	<p>Assessment Criteria</p>	<table border="1" data-bbox="1025 1074 1982 1209"> <thead> <tr> <th>Theory (Marks)</th> <th>Practical (Marks)</th> <th>Project (Marks)</th> <th>Viva (Marks)</th> <th>Total (Marks)</th> <th>Passing %age</th> </tr> </thead> <tbody> <tr> <td>50</td> <td>50</td> <td>-</td> <td>-</td> <td>100</td> <td>50%</td> </tr> </tbody> </table>	Theory (Marks)	Practical (Marks)	Project (Marks)	Viva (Marks)	Total (Marks)	Passing %age	50	50	-	-	100	50%
Theory (Marks)	Practical (Marks)	Project (Marks)	Viva (Marks)	Total (Marks)	Passing %age									
50	50	-	-	100	50%									
13.	<p>Is the Qualification Amenable to Persons with Disability</p>	<p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If "Yes," specify applicable type of Disability:</p>												
14.	<p>How will participation of women be encouraged?</p>	<p>Women will be encouraged to join</p>												

15.	Other Indian Languages in which the Micro Credential will be implemented.	English and Hindi	
16.	Is similar Micro Credential Qualification(s) available on NQR-if yes, justification for this qualification	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No URLs of similar Qualifications:	
17.	Name and Contact Details Submitting / Awarding Body SPOC	Name: Anand Kumar Singh Email: aksingh@ssdfindia.org Contact No.: +91-8505955506 Website: www.ssdfindia.org	
18.	NSQC Approval Date: 27-08-2024	19. Validity Duration: 3 Years	20. Next Review Date: 27-08-2027

Section 2: Training Related

1.	Trainer's Qualification and experience in relevant sector (in years) <i>(as per requirement and NCVET guidelines)</i>	Completed UG/PG in relevant fields with 2 years' experience. Completed UG in any discipline / Diploma in relevant fields with 4 years' experience. Completed ITI/12TH with 8 years' experience.
2.	Master Trainer's Qualification and experience in relevant sector (in years) <i>(as per requirement and NCVET guidelines)</i>	Completed UG/PG in relevant fields with 3 years' experience. Completed UG in any discipline / Diploma in relevant fields with 5 years' experience. Completed ITI/12TH with 9 years' experience.
3.	Tools and Equipment Required for Training	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If "Yes," details to be provided in Annexure)</i>

Section 3: Assessment Related

1.	Assessor's Qualification and experience in relevant sector (in years) <i>(as per requirement and NCVET guidelines)</i>	Completed UG/PG in relevant fields with 2 years' experience. Completed UG in any discipline / Diploma in relevant fields with 4 years' experience. Completed ITI/12TH with 8 years' experience
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2.	Proctor's Qualification and experience in relevant sector (in years) <i>(as per requirement and NCVET guidelines)</i>	Completed UG/PG in relevant fields with 1 years' experience. Completed UG in any discipline / Diploma in relevant fields with 3 years' experience. Completed ITI/12TH with 7 years' experience
3.	Lead Assessor's/Proctor's Qualification and experience in relevant sector (in years) <i>(as per requirement and NCVET guidelines)</i>	Completed UG/PG in relevant fields with 3 years' experience. Completed UG in any discipline / Diploma in relevant field with 5 years' experience Completed ITI/12TH with 9 years' experience.
4.	Assessment Mode <i>(Specify the assessment mode)</i>	<input checked="" type="checkbox"/> Offline Only <input checked="" type="checkbox"/> Online Only <input type="checkbox"/> Blended
5.	Tools and Equipment Required for Assessment	<input checked="" type="checkbox"/> Same as for training <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(details to be provided in Annexure-if it is different for Assessment)</i>

Section 4: Evidence of Need of the Micro Credential

As per the NCVET Guidelines for evidence of need, provide the required Annexure/Supporting documents.

1.	Government /Industry initiatives/ requirement (Yes/No):No
2.	Number of Industry validation provided: 5
3.	Estimated number of people to be trained: 15,00,000

Section 5: Annexure CheckList

Specify Annexure Number and Name.

1.	Annexure: NCrF/NSQF level justification based on NCrF Level/NSQF descriptors <i>(Mandatory)</i>	Yes
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2.	Annexure: Learning Outcomes and Assessment Criteria (Mandatory)	Yes
3.	Annexure: Assessment Strategy (Mandatory)	Yes
4.	Annexure: List of tools and equipment relevant for qualification (Mandatory – Except in case of online course)	Yes
5.	Annexure: Blended Learning (Mandatory in case selected mode of delivery is “Blended Learning”)	No
6.	Annexure: Acronym and Glossary (Optional)	Yes

Annexure: Evidence of Level

NCrF/NSQF Descriptors	Level	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 Knowledge/Process	Theoretical	<p>This MC would cover a wide range of specialized theoretical & practical skill, and technical knowledge to perform the task as in accordance with the applicable standards, regulations, and procedures in respect of followings.</p> <ul style="list-style-type: none"> ● Understanding Fire and Its Behavior ● Classification of Fires ● Fire Detection and Alarm Systems ● Fire Prevention Strategies ● Fire Suppression Systems ● Fire Safety Planning and Training ● Fire Safety Legal and Regulatory Requirements ● Fire Safety Technologies and Innovations 	The theoretical outcomes provide a foundational understanding of fire chemistry, physics, prevention, protection systems, and safety regulations. This aligns with the Level 4 requirement of possessing factual knowledge in broad contexts.	4.0

	<ul style="list-style-type: none"> Basic principles of fire investigation. 		
Professional and Technical Skills/ Expertise/ Professional Knowledge	Professional would be able to demonstrate expertise in Conducting Fire Risk Assessments, Implementing Fire Prevention Measures, Operating Fire Detection and Suppression Systems, Emergency Response Planning and Execution, Conducting Fire Safety Audits and Inspections, Fire Incident Investigation	Demonstrate technical expertise to Identify and evaluate fire hazards , Recommend and apply fire prevention measures, Operate Fire Detection and Suppression Systems, Develop and execute emergency plans, Perform audits and inspections	4.0
Employment Readiness & Entrepreneurship Skills & Mind-set/Professional Skill	The Professional is expected to have keen awareness of fire hazards and a commitment to safety protocol, Ability to analyze fire risks, identify vulnerabilities, and devise effective safety measures, Ensuring thoroughness in fire hazard assessments and safety procedures implementation.	Professionals at this level exhibit a strong Problem-Solving ability, meticulousness in Attention to Detail, demonstrate adaptability in responding to dynamic fire safety scenarios and evolving regulatory requirements, develop effective communication skills for conveying fire safety protocols,& lay emphasis on ethical behavior and professionalism & commit to continuous learning about emerging fire safety technologies, regulations, and best practices	4.0
Broad Learning Outcomes/Core Skill	<p>The professional is expected to have</p> <ul style="list-style-type: none"> Understanding of Fire Science and Behavior Awareness and adherence to local, national, and international fire safety regulations and standards. Familiarity with various fire protection systems, including fire alarms, sprinklers, extinguishers, and suppression systems. 	The microcredential at this level prepares individuals to independently identify potential fire hazards, assess risks, and propose innovative solutions to enhance fire safety measures. They should demonstrate critical thinking and problem-solving skills in real-world fire safety contexts.	4.0

	<ul style="list-style-type: none"> • Proficiency in developing and implementing emergency response plan • Ability to conduct thorough inspections of buildings and facilities to identify fire hazards and ensure compliance with safety standards. • Skills in assessing fire risks, evaluating potential consequences, and developing risk management strategies. 		
Responsibility	The professional would Implement Fire Safety Measures, Conduct Risk Assessments, Ensure Compliance, train educate on best practices on fire hazard awareness, plan emergency response, monitor & inspect fire safety equipment, systems, and procedures	Professionals are expected to handle complex tasks independently. In the context of fire hazard and safety, this includes conducting detailed risk assessments, developing comprehensive fire safety plans, and implementing advanced fire prevention and mitigation strategies.	4.0

Annexure: Learning Outcomes and Assessment Criteria

Detailed learning outcomes and assessment criteria for the qualification are as follows:

S. No.	Learning Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
1.	PC 1: Recognize circumstances, materials, or incidents that have the potential to ignite a fire or increase the likelihood of a fire occurrence.	5	5	-	-

2.	PC-2: Identify flammable materials and controls to put in place to prevent fire.	5	5	-	-
3.	PC 3: Conduct risk assessment as per possibility of the presence of flammable gas/vapors and consider the need for gas detection equipment.	5	5	-	-
4.	PC-4 Provide marked separate storage for flammable chemicals, gas cylinders, waste materials etc. and train employees on safe storage, handling and use of flammable materials.	5	5	-	-
5.	PC-5 Identify common hazards as kitchen fires, electrical systems that are overloaded, combustible storage areas, candles & other flames, smoking, equipment that generates heat , flammable substances, fireplace chimneys , cooking & heating appliances, leaking batteries, and electrical equipment.	5	5	-	-
6.	PC 6: Ensure fire protection equipment is easily identifiable, accessible and all workers/occupants know how to react to a fire and to use fire protection devices.	5	5	-	-
7.	PC 7: Discard hazardous waste in safe containers & safe places.	5	5	-	-
8	PC 8: Ensure flammable substances are stored in a dry, with adequate ventilation.	5	5	-	-
9	PC 9: Schedule regular maintenance services for all fire protection equipment to make sure everything is up to code.	5	5	-	-
10	PC 10: Plan Emergency and evacuation plans to prevent further damages or issues if there's a fire.	5	5	-	-
Total Marks		50	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: Tools and Equipment

List of Tools and Equipment

Batch Size: 30

S No	Tools/Equipment Name	Specifications	Quantity for specified Batch size
•	Safety goggles	Nos	2
•	Full face shield	Nos	1
•	Leather gloves	Nos	2
•	Puncture resistant gloves	Nos	2
•	Chemical resistant gloves	Nos	2
•	Electrically insulated latex gloves	Nos	2
•	Safety helmets/hard hats	Nos	2
•	Ear plugs	Nos	2
•	Safety shoes	Nos	2
•	Safety gumboots	Nos	2
•	High visibility jackets	Nos	2
•	N95 masks	Nos	2
•	Double filter half face mask	Nos	2

•	Double filter full face mask	Nos	2
•	SCBA – Self-contained breathing apparatus	Nos	1
•	Safety harness	Nos	1
•	Lanyard	Nos	1
•	Fall arrestor	Nos	1
•	Fire extinguisher (each Type)	Nos	1
•	Dry Chemical Powder Fire extinguisher	Nos	1
•	Fire hydrants	Nos	1
•	Fire detectors (each type)	Nos	1
•	Multiple gas detector	Nos	1
•	TDS Meter	Nos	1

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

S. No	Organization Name	Representative Name	Designation	Contact Address	Contact Phone No	E-mail ID	LinkedIn Profile (if available)
1	Shapoorji Pallonji and Co. Pvt Ltd	Mr. Nitin Bansal	Manager QA QC	SP Centre, 41/44, Minoo Desai Marg, Colaba, Mumbai - 400005 Maharashtra, India Tel: +91-22-67490000	8130090463	nitin.bansal@shapoorji.com	-
2	Tata Advanced Systems	Asheesh Singhal	Deputy Manager	Plot no.C-01, 401, 4th Floor, World Trade Tower Sector sixteen, Noida Uttar Pradesh-201301 India Tel +91 120 4847450 -7555 I Fax 91 11 43602735	7290014317	apkumar@taadvancedsystems.com	-
3	SIMPLEX Infrastructures Limited	Tarak Bhaumik	General Manager (HR & Admin)	Simplex House 27, Shakespeare Sara, Kolkata -700 017 Tel: (91 33) 2301 1600 Fax: (91 33) 2283 5966/65/64	-	-	-

4	TECHNOCULTURE Building Center Pvt Ltd	Anurag Tiwari	Manager	Konark Shree Apartment, RBI Road, 301/302, Brajkishore Path, Ali Nagar Colony, Salimpur Ahra, Dujra Diara, Patna, Bihar 800001	9006506858	vastu.skills@gmail.com	-
5	Urja Building Services Consultants Pvt Ltd	Sheetal Bhilkar	Mandar Managing Director	648,649, Laxmi Plaza, Laxmi Industrial Estate, Suresh Nagar, Andheri West, Mumbai, Maharashtra 400053	9819819212	sheetalbhilkar@urjagroup.in	-

Annexure: Training Details

Training Projections:

Year	Estimated Training # Total Candidates		Estimated Training # of Women		Estimated Training # People with Disability	
	Estimated Training #	Estimated Employment Opportunities	Estimated Training #	Estimated Employment Opportunities	Estimated Training #	Estimated Employment Opportunities
2024	800	800	120	120	250	250
2025	1400	1400	200	200	450	450
2026	1400	1400	200	100	450	450

Data to be provided year-wise for the next 3 years.

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
NQR	National Qualification Register
NSQF	National Skills Qualifications Framework
OJT	On the Job Training

Glossary

Term	Description
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.