

## QUALIFICATION FILE – Micro Credentials

### < Basics of Safety Protocols for Construction Works >

Public  Private

Upskilling  Dual/Flexi Qualification  For ToT  For ToA

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

NCrF/NSQF Level: 2.5

Submitted By:

< SAFETY ssSKILL DEVELOPMENT FOUNDATION >

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NSQC Approved

## Section 1: Basic Details

1.	<b>Micro Credential-Qualification Name</b>	BASICS OF SAFETY PROTOCOLS FOR CONSTRUCTION WORKS										
2.	<b>Sector/s</b>	Construction, Infrastructure, Real Estate & others										
3.	<b>National Qualification Register (NQR) Code &amp; Version</b> <i>(Will be issued after NSQC approval.)</i>	NM-2.5-CO-03008-2024-V1-SSDF	<b>4. NCrF/NSQF Level: 2.5</b>									
5.	<b>Brief Description of the Micro Credential</b>	The Micro credential provides the safety protocols, process required to be followed and personal protective equipment (PPEs) to be used by the workers at construction site while performing various construction activities at height, at elevated platforms, depths, handling materials and precautions to be taken while moving at the construction site and maintaining a tidy work-site environment										
6.	<b>Eligibility Criteria for Entry for Students/Trainee/Learner/Employee</b>	<p><b>a. Entry Qualification &amp; Relevant Experience</b></p> <table border="1"> <thead> <tr> <th>S. No.</th> <th>Academic/Skill Qualification (with specialization- if applicable)</th> <th>Relevant Experience (with specialization- if applicable)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>8<sup>th</sup> Grade Pass</td> <td>1.5</td> </tr> <tr> <td>2</td> <td>Previous relevant Qualification of NSQF Level 2.0</td> <td>1</td> </tr> </tbody> </table> <p><b>b. Age: 14</b></p>		S. No.	Academic/Skill Qualification (with specialization- if applicable)	Relevant Experience (with specialization- if applicable)	1	8 <sup>th</sup> Grade Pass	1.5	2	Previous relevant Qualification of NSQF Level 2.0	1
S. No.	Academic/Skill Qualification (with specialization- if applicable)	Relevant Experience (with specialization- if applicable)										
1	8 <sup>th</sup> Grade Pass	1.5										
2	Previous relevant Qualification of NSQF Level 2.0	1										
7.	<b>Credits Assigned to this Qualification, Subject to Assessment</b> <i>(as per National Credit Framework (NCrF))</i>	0.5	<b>8. Common Cost Norm Category (I/II/III)</b> <i>(wherever applicable): I</i>									
9.	<b>Any Licensing Requirements/ Prerequisites for Undertaking Training</b> <i>(wherever applicable)</i>	NA										
10.	<b>Expected Outcomes of the Micro Credential</b>	<b>Terminal learning outcomes are:</b> <ul style="list-style-type: none"> <li>Safety requirements &amp; precautions at construction sites.</li> </ul>										

		<ul style="list-style-type: none"> <li>• Safety protocols procedures while performing construction activities at construction sites.</li> <li>• Use of PPEs.</li> <li>• Health &amp; Environment at procedures while performing construction activities</li> <li>• Site's gear must be kept in good condition and subjected to routine inspections.</li> <li>• Workers on a construction site must be in sound physical and mental condition.</li> <li>• Potential Injuries &amp; possible solutions for various activities on site.</li> </ul>												
11.	<b>Training Duration by Modes of Training Delivery</b> <i>(Specify Total Duration as per selected training delivery modes and as per requirement of the qualification)</i>	<input checked="" type="checkbox"/> Offline Only <input type="checkbox"/> Online Only <input type="checkbox"/> Blended <table border="1"> <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>8</td> <td>7</td> <td>15</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)	8	7	15	Online	-	-	-
Training Delivery Mode	Theory (Hours)	Practical (Hours)	Total (Hours)											
Classroom (offline)	8	7	15											
Online	-	-	-											
12.	<b>Assessment Criteria</b>	<table border="1"> <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.	<b>Is the Qualification Amenable to Persons with Disability</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If "Yes," specify applicable type of Disability:												
14.	<b>How will participation of women be encouraged?</b>	Women will be encouraged to join												
15.	<b>Other Indian Languages in which the Micro Credential will be implemented.</b>	English and Hindi												
16.	<b>Is similar Micro Credential Qualification(s) available on NQR-if yes, justification for this qualification</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No   URLs of similar Qualifications:												

17.	<b>Name and Contact Details Submitting / Awarding Body SPOC</b>	<b>Name:</b> Anand Kumar Singh <b>Email:</b> <a href="mailto:aksingh@ssdfindia.org">aksingh@ssdfindia.org</a> <b>Contact No.:</b> +91-8505955506 <b>Website:</b> <a href="http://www.ssdfindia.org">www.ssdfindia.org</a>	
18.	<b>NSQC Approval Date:</b> 27-08-2024	19. <b>Validity Duration:</b> 3 Years	20. <b>Next Review Date:</b> 27-08-2027

## Section 2: Training Related

1.	<b>Trainer's Qualification and experience in the relevant sector (in years) (as per NCVET guidelines)</b>	Completed UG/PG in relevant field with 1 year experience Completed UG in any discipline / Diploma in relevant with 2-year experience Completed ITI/12TH with 5-year experience
2.	<b>Master Trainer's Qualification and experience in the relevant sector (in years) (as per NCVET guidelines)</b>	Completed UG/PG in relevant field with 2-year experience Completed UG in any discipline / Diploma in relevant field with 3-year experience Completed ITI/12TH with 6-year experience
3.	<b>Tools and Equipment Required for Training</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (If "Yes," details to be provided in Annexure)
4.	<b>In Case of Revised Qualification, Details of Any Upskilling Required for Trainer</b>	

## Section 3: Assessment Related

1.	<b>Assessor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines)</b>	Completed UG/PG in relevant field with 1 year experience Completed UG in any discipline / Diploma in relevant with 2-year experience Completed ITI/12TH with 5-year experience
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2.	<b>Proctor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines)</b>	Completed UG/PG in relevant field with 0.5 year experience Completed UG in any discipline / Diploma in relevant field with 1- year experience Completed ITI/12TH with 4-year experience
3.	<b>Lead Assessor's/Proctor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines)</b>	Completed UG/PG in relevant field with 2-year experience Completed UG in any discipline / Diploma in relevant field with 3-year experience Completed ITI/12TH with 6-year experience
4.	<b>Assessment Mode (Specify the assessment mode)</b>	<input checked="" type="checkbox"/> <b>Offline Only</b> <input checked="" type="checkbox"/> <b>Online Only</b> <input type="checkbox"/> <b>Blended</b>
5.	<b>Tools and Equipment Required for Assessment</b>	<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 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: 31,00,000

## Section 5: Annexure CheckList

Specify Annexure Number and Name.

1.	<b>Annexure:</b> NCrF/NSQF level justification based on NCrF Level/NSQF descriptors (Mandatory)	Yes
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2.	<b>Annexure:</b> Learning Outcomes and Assessment Criteria (Mandatory)	Yes
3.	<b>Annexure:</b> Assessment Strategy (Mandatory)	Yes
4.	<b>Annexure:</b> List of tools and equipment relevant for qualification (Mandatory – Except in case of online course)	Yes
5.	<b>Annexure:</b> Blended Learning (Mandatory in case selected mode of delivery is “Blended Learning”)	No
6.	<b>Annexure:</b> 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
<b>Professional Knowledge/Process</b>	<b>Theoretical</b>	<ul style="list-style-type: none"> <li>• Demonstrate knowledge of relevant safety laws and standards.</li> <li>• Conduct thorough risk assessments and implement effective risk management strategies.</li> <li>• Develop and enforce comprehensive safety plans tailored to specific construction projects.</li> <li>• Ensure proper use and maintenance of PPE.</li> <li>• Apply safety protocols to various construction activities to prevent accidents.</li> <li>• Promote and sustain a positive safety culture within construction teams.</li> </ul>	The microcredential on Safety Protocols for Construction Works equips individuals with the necessary knowledge, skills, and responsibilities as outlined in the NCrF/NSQF Level 4 descriptors. Participants will be able to apply factual and theoretical knowledge to practical scenarios, manage safety protocols on construction sites, supervise the work of others, and continuously improve safety practices. This alignment ensures that the training program meets the required standards and prepares individuals for roles that demand a high level of responsibility and autonomy in managing construction site safety	2.5

<p><b>Professional and Technical Skills/ Expertise/ Professional Knowledge</b></p>	<p>Professional and Technical Skills</p> <ol style="list-style-type: none"> <li>1. Risk Assessment and Management</li> <li>2. Personal Protective Equipment (PPE)</li> <li>3. Safety Planning and Implementation</li> <li>4. Regulatory Compliance:</li> <li>5. Safety Communication:</li> <li>6. Specific Safety Protocols:</li> <li>7. Health and Environmental Considerations</li> </ol> <p><b>Expertise</b></p> <ol style="list-style-type: none"> <li>1. Safety Culture and Behavior</li> <li>2. Continuous Improvement</li> <li>3. Emergency Preparedness</li> </ol> <p><b>Professional Knowledge</b></p> <ol style="list-style-type: none"> <li>1. Construction Safety Regulation</li> <li>2. Safety Management Systems (SMS)</li> </ol>	<p>The microcredential On safety protocols for construction works align learners with the NSQF Level 2.5 descriptor by focusing on:</p> <ul style="list-style-type: none"> <li>● Performing routine tasks under supervision.</li> <li>● Ensuring basic safety compliance.</li> <li>● Handling simple tools and equipment safely.</li> <li>● Following clear instructions and procedures.</li> <li>● Contributing to a safe working environment.</li> </ul>	<p>2.5</p>
<p><b>Employment Readiness &amp; Entrepreneurship Skills &amp; Mind-set/Professional Skill</b></p>	<p>Mindset/Professional Skills:</p> <ul style="list-style-type: none"> <li>● Knowledge of local, state, and federal safety regulations.</li> <li>● Identifying potential hazards on construction sites.</li> <li>● Proper use and maintenance of PPE.</li> <li>● Procedures for working at heights, handling hazardous materials, and operating machinery</li> </ul>	<ul style="list-style-type: none"> <li>● Basic knowledge of local, state, and federal safety regulations and standards like OSHA..</li> <li>● Performing routine safety checks, following established procedures for handling equipment and materials safely.</li> <li>● Identifying common hazards on construction sites and understanding basic risk management strategies.</li> </ul>	<p>2.5</p>

	<ul style="list-style-type: none"> <li>• Developing and practicing emergency response plans.</li> <li>• Maintaining accurate safety records and incident reports.</li> <li>• Encouraging safety awareness and accountability among workers.</li> <li>• Integrating safety protocols into business operations.</li> </ul>	<ul style="list-style-type: none"> <li>• Working effectively in a team, following instructions from supervisors, and communicating safety concerns.</li> <li>• Grasping the importance of safety in business operations, and the financial and legal implications of non-compliance with safety standards.</li> <li>• Carefully following safety guidelines and instructions to avoid accidents.</li> <li>• Developing a mindset that prioritizes safety in all tasks.</li> </ul>	
<p><b>Broad Learning Outcomes/Core Skill</b></p>	<ul style="list-style-type: none"> <li>• Ability to ensure that all construction activities comply with regulatory requirements, such as OSHA, ANSI, and other standards.</li> <li>• Skills to conduct thorough risk assessments to determine potential impacts and necessary precautions.</li> <li>• Skills to correctly use and maintain PPE, ensuring maximum protection for all workers.</li> <li>• Basic first aid skills and the ability to respond promptly and effectively to emergencies.</li> <li>• Ensuring all work is performed following established safety procedures and protocols.</li> <li>• Promoting a collaborative approach to safety, encouraging team members to work together to maintain a safe work environment.</li> </ul>	<p>At level 2.5, individuals are expected to have a basic understanding of key concepts. The knowledge of fundamental safety regulations and risk assessments fits this requirement, enabling workers to apply basic safety principles under supervision. The focus on identifying hazards, conducting basic risk assessments, and implementing preventative measures helps workers at this level contribute to a safer work environment. This aligns with the expectation of understanding and mitigating risks under guidance.</p>	<p>2.5</p>

	<ul style="list-style-type: none"> <li>● Skills to inspect tools and equipment regularly to ensure they are in safe working condition.</li> <li>● Skills to report accidents, near-misses, and unsafe conditions promptly and accurately.</li> <li>● Skills to manage and dispose of construction waste safely and in compliance with environmental regulations.</li> </ul>		
<p><b>Responsibility</b></p>	<ul style="list-style-type: none"> <li>● Establish comprehensive safety policies that comply with local, national, and international regulations.</li> <li>● Enforce safety protocols and ensure that all workers understand and follow them.</li> <li>● Adhere to all safety guidelines and protocols while performing tasks.</li> <li>● Regularly review and update safety policies and protocols to reflect changes in regulations or work conditions.</li> <li>● Ensure that all subcontractors comply with the main contractor’s safety protocols and legal requirements.</li> <li>● Conduct regular inspections and audits to ensure compliance with safety regulations.</li> </ul>	<ul style="list-style-type: none"> <li>● <b>Basic Factual Knowledge:</b> Responsibilities should include understanding and applying basic safety knowledge and principles.</li> <li>● <b>Work under Supervision:</b> Responsibilities should be performed under close supervision, with guidance and oversight from more experienced personnel.</li> <li>● <b>Routine Tasks:</b> Focus on routine safety tasks, such as following protocols, using PPE, and reporting hazards.</li> <li>● <b>Limited Responsibility:</b> Workers at this level have limited responsibility for their own work and safety, with more complex decisions and oversight handled by supervisors or safety officers.</li> </ul>	<p>2.5</p>

## 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 Identifies various safety hazards, associated risks, and precautions to be taken at work sites.	5	5	-	-
2.	PC-2: Demonstrate safety protocols, procedure, safety nets and precautions while working at height.	5	5	-	-
3.	PC-3: Demonstrate safety protocols and procedure while working at elevated platform, going up to elevated platform and getting down from the elevated platform.	5	5	-	-
4.	PC-4: Demonstrate safety protocols, procedure, measures & precautions while working at depth/in excavation.	5	5	-	-
5.	PC-5: Demonstrate safety protocols, procedure, measures & precautions while working as mason, bar bender, shuttering carpenter, scaffolder.	5	5	-	-
6.	PC-6: Demonstrate safety protocols, procedure, measures & precautions in handling materials and while moving at construction work site.	5	5	-	-
7.	PC-7: Demonstrate safety protocols & precautions in working in confined space, operation heavy machinery, lifting/rigging operations or working near them.	5	5	-	-
8.	PC-8: Demonstrate use of personal protective equipment (PPEs) at construction sites.	5	5	-	-
9.	PC-9: Identify & demonstrate health & hygiene challenges at construction sites and measures and precautions against them.	5	5	-	-
10.	PC-10: Demonstrate minimum wastes, proper disposal, recognition of signage at construction site.	5	5	-	-
<b>Total Marks</b>		<b>50</b>	<b>50</b>	-	-

## 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

No	Tools/Equipment Name	Specifications	Quantity for specified Batch size
•	Safety Helmet	Nos	2
•	Full face shield	Nos	1
•	Leather gloves	Nos	2
•	Chemical resistant gloves	Nos	2
•	Electrically insulated latex gloves	Box	2
•	Reflective jackets	Nos	2
•	Ear muffs	Nos	2
•	Safety gumboots	Nos	2
•	Safety shoes	Nos	2
•	Safety belt	Nos	2
•	Safety harness	Nos	1
•	High visibility jackets	Nos	2
•	Fall arrestor	Nos	1

•	Fire extinguisher	Nos	1
•	Measuring Tape	set	2
•	Fire Prevention kit	Nos	1
•	First Aid box	Nos	1
•	Safety Cone	Nos	2
•	Caution Boards	set	2
•	Safety Sign Boards	Nos	2
•	Caution Tape	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

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@taataadvancedsystems.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.