

QUALIFICATION FILE – Micro Credentials

< BASICS OF SAFETY REQUIREMENTS IN WORKING AT HEIGHT >

☐ Public ☒ Private

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

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

NCrF/NSQF Level: 2

Submitted By:

< SAFETY SKILL DEVELOPMENT FOUNDATION >

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Section 1: Basic Details

1.	Micro Credential-Qualification Name	BASICS OF SAFETY REQUIREMENTS IN WORKING AT HEIGHT								
2.	Sector/s	Education, Training & Research; Construction, Infrastructure, Real estate, Iron & Steel, Mining, Logistics, Hydrocarbon and others								
3.	National Qualification Register (NQR) Code & Version (Will be issued after NSQC approval.)	NM-02-ET-04313-2025-V1-SSDF		4. NCrF/NSQF Level: 2						
5.	Brief Description of the Micro Credential	The Micro Credential deals with challenges & risks related to working at height, measures to reduce the risks, safety precautions to be taken and personal protective equipment to be used while working at height. It also explains the various causes, situations and negligence which lead to accidents with regulations associated with working at elevated positions.								
6.	Eligibility Criteria for Entry for Students/Trainee/Learner/Employee	a. Entry Qualification & Relevant Experience <table><tr><th>S. No.</th><th>Academic/Skill Qualification (with specialization- if applicable)</th><th>Relevant Experience (with specialization- if applicable)</th></tr><tr><td>1</td><td>8th grade pass</td><td>-</td></tr></table> b. Age: NA			S. No.	Academic/Skill Qualification (with specialization- if applicable)	Relevant Experience (with specialization- if applicable)	1	8th grade pass	-
S. No.	Academic/Skill Qualification (with specialization- if applicable)	Relevant Experience (with specialization- if applicable)								
1	8th grade pass	-								
7.	Credits Assigned to this Qualification, Subject to Assessment (as per National Credit Framework (NCrF))	0.25		8. Common Cost Norm Category (I/II/III) (wherever applicable): I						
9.	Any Licensing Requirements/ Pre-requisites for Undertaking Training (wherever applicable)	NA								
10.	Expected Outcomes of the Micro Credential	Terminal learning outcomes are: Challenges & risks associated while working at height.								

		- Measures to reduce the risks and safety precautions to be taken. - Use of personal protective equipment while working at height. - Probable situations, causes & negligence leading to accidents in working at height and rescue plans in case of any emergency. - Regulations associated with working at elevated platforms/position.												
11.	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>)	☒ Offline Only ☐ Online Only ☐ 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>4</td><td>3.5</td><td>7.5</td></tr> <tr> <td>Online</td><td>-</td><td>-</td><td>-</td></tr> </tbody> </table> (Refer Blended Learning Annexure for Details)	Training Delivery Mode	Theory (Hours)	Practical (Hours)	Total (Hours)	Classroom (offline)	4	3.5	7.5	Online	-	-	-
Training Delivery Mode	Theory (Hours)	Practical (Hours)	Total (Hours)											
Classroom (offline)	4	3.5	7.5											
Online	-	-	-											
12.	Assessment Criteria	<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>42</td><td>58</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	42	58	-	-	100	50
Theory (Marks)	Practical (Marks)	Project (Marks)	Viva (Marks)	Total (Marks)	Passing %age									
42	58	-	-	100	50									
13.	Is the Qualification Amenable to Persons with Disability	☒ Yes ☐ No If "Yes," specify applicable type of Disability:												
14.	How participation of women will be encouraged?	Women will be encouraged to join												
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	☐ Yes ☒ 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: 08-05-2025	19. Validity Duration: 3 Years	20. Next Review Date: 08-05-2028

Section 2: Training Related

1.	Trainer's Qualification and experience in relevant sector (in years) <i>(as per requirement and NCVET guidelines)</i>	M. Tech/ B. Tech with 1 years' experience. Graduate in any discipline / Diploma in Engineering with 3 years' experience. ITI/12TH with 5 years' experience.
2.	Master Trainer's Qualification and experience in relevant sector (in years) <i>(as per requirement and NCVET guidelines)</i>	M. Tech/ B. Tech with 2 years' experience. Graduate in any discipline / Diploma in Engineering with 4 years' experience. ITI/12TH with 6 years' experience.
3.	Tools and Equipment Required for Training	☒ Yes ☐ 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>	M. Tech/ B. Tech with 1 years' experience. Graduate in any discipline / Diploma in Engineering with 3 years' experience. ITI/12TH with 5 years' experience.
2.	Proctor's Qualification and experience in relevant sector (in years) <i>(as per requirement and NCVET guidelines)</i>	M. Tech/ B. Tech Graduate in any discipline / Diploma in Engineering with 2 years' experience. ITI/12TH with 4 years' experience.

3.	Lead Assessor's/Proctor's Qualification and experience in relevant sector (in years) <i>(as per requirement and NCVET guidelines)</i>	M. Tech/ B. Tech with 2 years' experience. Graduate in any discipline / Diploma in Engineering with 4 years' experience. ITI/12TH with 6 years' experience.
4.	Assessment Mode <i>(Specify the assessment mode)</i>	Mode: ☒ Online Only ☐ Offline Only ☒ Blended
5.	Tools and Equipment Required for Assessment	☒ Same as for training ☒ Yes ☒ 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: 25,000

Section 5: Annexure Check List

Specify Annexure Number and Name.

1.	Annexure: NCrf/NSQF level justification based on NCrf Level/NSQF descriptors <i>(Mandatory)</i>	Yes
2.	Annexure: Learning Outcomes and Assessment Criteria <i>(Mandatory)</i>	Yes
3.	Annexure: Assessment Strategy <i>(Mandatory)</i>	Yes

4.	Annexure: List of tools and equipment relevant for qualification (<i>Mandatory – Except in case of online course</i>)	Yes
5.	Annexure: Blended Learning (<i>Mandatory in case selected mode of delivery is “Blended Learning”</i>)	No
6.	Annexure: Acronym and Glossary (<i>Optional</i>)	Yes

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	- Understanding relevant national and international safety standards, such as ISO 45001 for Occupational Health and Safety. - Knowledge of how to conduct thorough risk assessments to identify potential hazards associated with working at height. - Knowledge of different fall protection systems, including guardrails, safety nets, personal fall arrest systems (PFAS), and restraint systems. - Developing a detailed safety plan that outlines the measures to be taken to ensure worker safety. - Ensuring workers are trained in the use of fall protection systems, PPE, and emergency procedures.	Work Responsibility: At Level 4, individuals are expected to perform tasks independently under supervision, aligning with responsibilities such as conducting site surveys, developing safety plans, and monitoring safety measures. Knowledge and Skills: The requirement for a blend of theoretical knowledge and practical application matches Level 4's expectation of understanding detailed processes and implementing them effectively. Problem-Solving: Ability to identify hazards, conduct risk assessments, and implement controls reflects the problem-solving skills required at this level. Communication: Clear communication of safety policies,	2

	• Properly installing fall protection systems and ensuring they are used correctly. • Regularly monitoring the work environment to identify and address new hazards. • Establishing and communicating clear emergency procedures in case of a fall.	procedures, and emergency plans aligns with Level 4's expectation of effective communication skills. • Compliance and Improvement: Ensuring compliance with safety standards and contributing to continuous improvement processes matches the responsibilities of individuals at Level 4.	
Professional and Technical Skills/ Expertise/ Professional Knowledge	• Recognize and document hazards using standard techniques like Job Safety Analysis (JSA) and Hazard Identification and Risk Assessment (HIRA). • Choose appropriate fall protection systems, such as guardrails, safety nets, and personal fall arrest systems (PFAS). • Inspect PPE before use and follow maintenance procedures to ensure it remains in good condition. • Understand the components of different fall protection systems and their specific applications. • Conduct regular inspections of equipment and systems to identify wear and tear or damage. • Be familiar with national and international safety standards (e.g., OSHA, ISO 45001) and ensure compliance.	• Work Responsibility: Individuals at Level 4 are expected to perform tasks independently while following established guidelines and protocols, aligning with responsibilities such as conducting risk assessments and implementing safety measures. • Knowledge Application: The ability to apply theoretical knowledge to practical situations is a key aspect of Level 4, reflected in the implementation of fall protection systems and emergency preparedness. • Problem-Solving and Decision-Making: Level 4 requires individuals to solve problems and make decisions within their scope of work, aligning with identifying hazards and implementing corrective actions. • Communication and Collaboration: Effective communication and	2

	• Understand key safety theories and models related to occupational safety and health. • Understand the frameworks of safety management systems, such as Plan-Do-Check-Act (PDCA) cycle. • Promote a safety culture within the organization by encouraging safe behavior and practices.	collaboration are essential at Level 4, especially in training workers and promoting safety culture.	
Employment Readiness & Entrepreneurship Skills & Mind-set/Professional Skill	• Understand and follow established safety protocols and procedures for working at height. • Effectively identify potential hazards related to working at height and assess associated risks. • Develop and implement innovative safety practices and procedures to enhance workplace safety. • Anticipate potential risks and take preventive measures to address them. • Understand and comply with national and international safety standards and regulations. • Develop and understand emergency response plans specific to working at height. Mind-set: Safety-First Attitude Attention to Detail Commitment to Learning	• Work Responsibility: Individuals at Level 4 are expected to independently perform tasks within established safety protocols, aligning with the need for technical competence and proactive risk management. • Knowledge Application: The requirement to apply theoretical knowledge to practical situations matches Level 4's expectation of understanding and implementing safety measures. • Problem-Solving and Innovation: Level 4 necessitates problem-solving skills and the ability to innovate within established guidelines, reflecting the entrepreneurial mind-set and proactive approach. • Communication and Collaboration: Effective communication and teamwork are essential at this level, ensuring safety measures are	2

		understood and followed by all team members.	
Broad Learning Outcomes/Core Skill	• Demonstrate knowledge of national and international safety standards and regulations related to working at height. • Effectively identify and assess potential hazards associated with working at height. • Demonstrate the ability to select, install, and use appropriate fall protection systems. • Ability to conduct thorough risk assessments and identify potential hazards related to working at height. • Ability to analyze and evaluate hazards and risks associated with working at height. • Ability to perform rescue techniques and procedures in the event of a fall.	• Independence and Responsibility: At Level 4, individuals are expected to perform tasks independently while adhering to established guidelines and protocols. This aligns with the need to conduct risk assessments, implement safety measures, and use fall protection systems effectively. • Knowledge Application: The ability to apply theoretical knowledge to practical situations is a key aspect of Level 4, reflected in the implementation of safety protocols and emergency preparedness. • Problem-Solving: Level 4 requires problem-solving skills to address safety issues and implement corrective actions, aligning with the core skills of hazard analysis and mitigation. • Communication and Teamwork: Effective communication and teamwork are essential at this level, ensuring that safety measures are understood and followed by all team member	2
Responsibility	• Perform comprehensive risk assessments to identify potential	• Independence: At Level 4, individuals are expected to perform their responsibilities independently	2

	hazards associated with working at height. • Ensure the correct installation and maintenance of fall protection systems, such as guardrails, safety nets, and personal fall arrest systems (PFAS). • Ensure that all safety practices and procedures comply with national and international safety regulations and standards, such as OSHA or ISO 45001. • Develop and implement emergency response plans for incidents involving working at height. • Continuously monitor work conditions and safety practices to identify and address potential hazards. • Conduct regular inspections of fall protection systems, PPE, and other safety equipment to ensure they are in good working condition.	while adhering to established guidelines and procedures, aligning with the need to conduct risk assessments and implement safety measures effectively. • Knowledge Application: Applying theoretical knowledge to practical situations, such as ensuring compliance with safety standards and developing emergency plans, reflects the core competencies expected at this level. • Problem-Solving: Addressing safety issues and implementing corrective actions align with the problem-solving skills required at Level 4. • Communication and Leadership: Effective communication and the ability to lead and promote a safety culture are crucial at this level, ensuring that all team members understand and follow safety protocols.	
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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: Define risks and challenges & risks associated while working at height or on at elevated platform.	3	4	-	-
2.	PC-2: Identify safety measures and precautions to be taken for working at height or at an elevated platform to mitigate risks & dangers.	3	5	-	-
3.	PC-3: Explain precautions to be taken while going up to elevated platform and while coming down, using stairs or lifts.	3	4	-	-
4.	PC-4: Enumerate PPEs to be used while working at height and demonstrate their use and use of fall protection systems, including guardrails, safety nets.	3	4	-	-
5.	PC-5: Define measures while working at height to reduce the risks to other persons working below.	3	5	-	-
6.	PC-6 : Demonstrate Safety measures and precautions at the ground level where work is progressing at height..	3	4	-	-
7.	PC-7: Identify and enumerate causes, negligence and situations which normally lead to or may lead to accidents.	3	4	-	-

8.	PC-8: Explain the reporting of any shortcomings, danger or incidents observed while working at height.	3	4	-	-
9.	PC-9: Explain how to judge the stability of elevated platform visually while beginning the work	3	4	-	-
10.	PC-10: Explain & enumerate the steps to be taken in rescue measures in case of any incident or emergency.	3	4	-	-
11	PC: 11 Identify the provisions as per associated regulations with working at elevated platform/position.	3	4		
12	PC 12 Recognize health conditions incompatible with work at height, including:Vertigo, dizziness, balance disorders; Uncontrolled epilepsy or seizures; Uncontrolled hypertension ;Severe cardiovascular conditions; Visual impairments; Respiratory disorders;Psychological conditions; Musculoskeletal disorders; Diabetes; Use of medications causing drowsiness, delayed reaction, or cognitive impairment	3	4		
13	PC 13 Follow organizational procedures for:Medical screening prior to assignment of work at height & Regular health check-ups based on job risk level.	3	4		
14	PC 14 Identify and strictly avoid working at height under unsafe conditions:Adverse Weather Conditions;Poor Visibility;Unsafe or Unstable Surfaces;Lack of Proper Fall Protection;Defective Access Equipment;Missing	3	4		

	Work Permits or Approvals;Inadequate Supervision and Competency;Nearby Electrical Hazards;Incomplete Risk Assessment and Rescue Plan				
Total Marks		42	58	-	-

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) are 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
- Centre 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	Number	1
•	Measuring Tape	set	2
•	Fire Prevention kit	Number	1
•	First Aid box	Number	1
•	Safety Cone	Number	2
•	Caution Boards	set	2
•	Safety Sign Boards	Number	2
•	Caution Tape	Number	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 QAQC	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@taadadvancedsystems.com	-

3	SIMPLEX Infrastructures Limited	Tarak Bhaumik	General Manager (HR&Admin)	Simplex House 27, Shakespeare Sarani, Kolkata-700 017 Tel: (91 33) 23011600 Fax: (91 33) 2283 5966 / 65	-	-	-
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	9006506 858	vastu.skills@gmail.com	-
5	Urja Building Services Consultants Pvt Ltd	Sheetal Bhilkar	Managing Director	648,649, Laxmi Plaza, Laxmi Industrial Estate, Suresh Nagar, Andheri West, Mumbai, Maharashtra 400053	9819819 212	sheetalbhilkar@urjagroup.in	-

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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: 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	Presentations, Reference material, Audio/Video module, e-books, 2-way video platform, Case study.	0% : 100%
2	☐ Imparting Soft Skills, Life Skills, and Employability Skills /Mentorship to Learners	Presentations, Reference material, Audio/Video module, e-books, 2-way video platform.	0% : 100%
3	☐ Showing Practical Demonstrations to the learners	Presentations, Audio/Video module, e-books	0% : 100%
4	☐ Imparting Practical Hands-on Skills/ Lab Work/ workshop/ shop floor training	Simulation, Animation, Audio/Video module	0% : 100%

5	☐ Tutorials/ Assignments/ Drill/ Practice	Presentations, Reference material, Audio/Video module, e-books, MCQ based test.	0% : 100%
6	☐ Proctored Monitoring/ Assessment/ Evaluation/ Examinations	Presentations, Reference material, Audio/Video module, e-books, laptop/mobile	0% : 100%
7	☐ On the Job Training (OJT)/ Project Work Internship/ Apprenticeship Training	On the work site, simulation.	0% : 100%
6	☐ Proctored Monitoring/ Assessment/ Evaluation/ Examinations	Presentations, Reference material, Audio/Video module, e-books, laptop/mobile	0% : 100%
7	☐ On the Job Training (OJT)/ Project Work Internship/ Apprenticeship Training	On the work site, simulation.	100% : 0%

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.

NSQC Approved