



## QUALIFICATION FILE

### SAFETY INSPECTOR (OSHE)

- 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: 5.5

Submitted By:

SAFETY SKILL DEVELOPMENT FOUNDATION

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## Table of Contents

Section 1: Basic Details	3
Section 2: Module Summary	5
NOS/s of Qualifications	5
Mandatory NOS/s:	5
Optional NOS/s:	6
Assessment - Minimum Qualifying Percentage	7
Section 3: Training Related	7
Section 4: Assessment Related	7
Section 5: Evidence of the need for the Qualification	8
Section 6: Annexure & Supporting Documents Checklist	8
Annexure: Evidence of Level	9
Annexure: Tools and Equipment (Lab Set-Up)	11
Annexure: Industry Validations Summary	13
Annexure: Training & Employment Details	18
Annexure: Detailed Assessment Criteria	19
Annexure: Assessment Strategy	27
Annexure: Acronym and Glossary	28

Section 1: Basic Details

1.	<b>Qualification Name</b>	Safety Inspector (OSHE)													
2.	<b>Sector/s</b>	Hydrocarbon, Iron & steel, Mining, Power, Automotive, Construction, Chemical / Petrochemical, and others.													
3.	<b>Type of Qualification:</b> <input checked="" type="checkbox"/> New <input type="checkbox"/> Revised <input type="checkbox"/> <b>Has Electives/Options</b> <input type="checkbox"/> OEM	<b>NQR Code &amp; version of existing/previous qualification:</b> <i>(change to previous, once approved)</i>	<b>Qualification Name of existing/previous version:</b>												
4.	<b>a. OEM Name</b> <b>b. Qualification Name</b> <i>(Wherever applicable)</i>														
5.	<b>National Qualification Register (NQR) Code &amp;Version</b> <i>(Will be issued after NSQC approval)</i>	QC-5.5-CO-02085-2024-V1-SSDF	<b>6. NCrF/NSQF Level:</b> 5.5												
7.	<b>Award (Certificate/Diploma/Advance Diploma/ Any Other)</b> <i>(Wherever applicable specify multiple entry/exits also &amp; provide details in annexure)</i>	Certificate													
8.	<b>Brief Description of the Qualification</b>	The <b>Safety Inspector (OSHE)</b> will be responsible for inspection and ensuring the safety of the workplace by identifying and assessing potential hazards and highlighting measures to prevent accidents. The role involves conducting regular inspections, preparing reports, and making recommendations to management coordinating with regulatory bodies and executives on ways to improve safety standards and best safety practices. Safety Inspector is also responsible to examine a company's machinery, operational procedures, management techniques, and environmental concerns, investigating & maintaining incidents, and accidents along with recommending corrective actions to reoccurrence.													
9.	<b>Eligibility Criteria for Entry for Student/Trainee/Learner/Employee</b>	<b>a. Entry Qualification &amp; Relevant Experience:</b> <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 in relevant field</td> <td>2</td> </tr> <tr> <td>2</td> <td>Completed 3-year diploma after 10th</td> <td>6</td> </tr> <tr> <td>3</td> <td>Completed 2-year NTC after 10th</td> <td>7</td> </tr> </tbody> </table>		S. No.	Academic/Skill Qualification (with Specialization - if applicable)	Required Experience (with Specialization - if applicable)	1	Completed 4-year UG in relevant field	2	2	Completed 3-year diploma after 10th	6	3	Completed 2-year NTC after 10th	7
S. No.	Academic/Skill Qualification (with Specialization - if applicable)	Required Experience (with Specialization - if applicable)													
1	Completed 4-year UG in relevant field	2													
2	Completed 3-year diploma after 10th	6													
3	Completed 2-year NTC after 10th	7													



20.	<b>Are Greening/ Environment Sustainability Aspects Covered</b> ( <i>Specify the NOS/Module which covers it</i> )	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
21.	<b>Is Qualification Suitable to be Offered in Schools/Colleges</b>	Schools <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No    Colleges <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
22.	<b>Name and Contact Details of Submitting / Awarding Body SPOC</b> ( <i>In case of CS or MS, provide details of both Lead AB &amp; Supporting ABs</i> )	<b>Name:</b> Anand Kumar Singh <b>Email:</b> aksingh@ssdfindia.org <b>Contact No.:</b> +91-8505955506 <b>Website:</b> www.ssdfindia.org
23.	<b>Final Approval Date by NSQC:</b> 31-01-2024	<b>24. Validity Duration:</b> 3 Years <b>25. Next Review Date:</b> 31-01-2027

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/N SQF 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.	Occupational Safety, Health, and Environment (OSHE) Management.	SSD/N0117, v1.0	Core	5.5	4	60	40	20	0	120	50	50	-	-	100	16%
2.	Hazard Identification & Risk Analysis	SSD/N0118, v1.0	Core	5.5	4	60	40	20	0	120	50	50	-	-	100	16%
3.	Investigating of Occupational Safety and Health Incidents	SSD/N0119, v1.0	Core	5.5	4	60	30	30	0	120	50	50	-	-	100	16%
4.	Conducting Workplace Inspections for OSHE	SSD/N0120, v1.0	Core	5.5	4	60	35	25	0	120	50	50	-	-	100	16%
5.	Pollution & Environment Management, Global warming and sustainability	SSD/N0112, v1.0	Core	5	2	30	15	15	0	60	50	50	-	-	100	8%
6.	Statutes & Legislative requirements in Health & Safety.	SSD/N0109, v1.0	Core	4.5	3	45	45	0	0	90	50	50	-	-	100	12%
7.	Plan, Organize and Emergency protocols	SSD/N0104, v1.0	Non-Core	4.5	2	30	20	10	0	60	50	50	-	-	100	8%
8.	Employability Skills	DGT/VSQ/N0102	Non-Core	4	2	30	30		-	60	25	25	-	-	50	8%
<b>Duration (in Hours) / Total Marks</b>				-	25	375	255	120	0	750	375	375	-	-	750	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															
<b>Duration (in Hours) / Total Marks</b>																

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.	<b>Trainer's Qualification and experience in the relevant sector (in years) (as per NCVET guidelines)</b>	Completed UG/PG in relevant field with 3 years of experience Completed UG in any discipline / Diploma in relevant field with 5 years of experience Completed ITI/12TH with 10 years of 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 5 years of experience Completed UG in any discipline / Diploma in relevant field with 7 years of 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 4: 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 3 years of experience Completed UG in any discipline / Diploma in relevant field with 5 years of experience Completed ITI/12TH with 10 years of 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 1 years of experience Completed UG in any discipline / Diploma in relevant field with 2 years of experience Completed ITI/12TH with 5 years of 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 5 years of experience Completed UG in any discipline / Diploma in relevant field with 7 years of experience
4.	<b>Assessment Mode (Specify the assessment mode)</b>	Offline and online
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 5: Evidence of the need for the Qualification

Provide Annexure/Supporting documents name.

1.	<b>Latest Skill Gap Study (not older than 2 years) (Yes/No):</b> Yes
2.	<b>Latest Market Research Reports or any other source (not older than 2 years) (Yes/No):</b> Yes
3.	<b>Government /Industry initiatives/ requirement (Yes/No):</b> No
4.	<b>Number of Industry validation provided:</b> 30
5.	<b>Estimated nos. of persons to be trained and employed:</b> 30,000
6.	<b>Evidence of Concurrence/Consultation with Line Ministry/State Departments:</b> "No"

Section 6: Annexure & Supporting Documents Checklist

Specify Annexure Name / Supporting document file name

1.	<b>Annexure:</b> NCrF/NSQF level justification based on NCrF level/NSQF descriptors (Mandatory)	Yes
2.	<b>Annexure:</b> List of tools and equipment relevant for qualification (Mandatory, except in case of online course)	Yes
3.	<b>Annexure:</b> Detailed Assessment Criteria (Mandatory)	Yes
4.	<b>Annexure:</b> Assessment Strategy (Mandatory)	Yes
5.	<b>Annexure:</b> Blended Learning (Mandatory, in case selected Mode of delivery is "Blended Learning")	No

6.	<b>Annexure:</b> Multiple Entry-Exit Details <i>(Mandatory, in case qualification has multiple Entry-Exit)</i>	Yes
7.	<b>Annexure:</b> Acronym and Glossary <i>(Optional)</i>	Yes
8.	<b>Supporting Document:</b> Model Curriculum <i>(Mandatory – Public view)</i>	Yes
9.	<b>Supporting Document:</b> Career Progression <i>(Mandatory - Public view)</i>	Yes
10.	<b>Supporting Document:</b> Occupational Map <i>(Mandatory)</i>	Yes
11.	<b>Supporting Document:</b> Assessment SOP <i>(Mandatory)</i>	Yes
12.	<b>Any other document you wish to submit:</b>	No

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
<b>Professional Theoretical Knowledge/Process</b>	<p>The job holder requires a wide range of specialized theoretical &amp; practical skill, experience, and technical knowledge to perform the task as Safety Inspector (OSHE) in accordance with the applicable standards, regulations, and procedures in respect of followings.</p> <ul style="list-style-type: none"> <li>● Accident prevention</li> <li>● Fire safety</li> <li>● Pollution control</li> <li>● Statutory compliances</li> </ul>	The job holder requires a wide range of specialized theoretical & practical skills & understanding which may or may not be routine.	5.5
<b>Professional and Technical Skills/ Expertise/ Professional Knowledge</b>	Job holder is required to ensure inspection of safety process compliances as per standing order procedures, as per standards, regulation, and norms.	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:	5.5

	<p>The job holder will have very good factual &amp; theoretical knowledge of regulations, statutory requirements, implementation processes, steps involved to ensure safety of employees, workers, and assets of the organization.</p>	<ul style="list-style-type: none"> <li>● Hazard identification, categorization, and control methods.</li> <li>● Accident Prevention Measures.</li> <li>● Statutory and Legal requirements</li> <li>● Pollution control methods</li> <li>● Indian and basic international standards</li> <li>● Planning and methodology</li> </ul>	
<p><b>Employment Readiness &amp; Entrepreneurship Skills &amp; Mind-set/Professional Skill</b></p>	<p>The job holder is expected to have cognitive &amp; practical skills to ensure safety, generate solutions to specific issues related to safety and ability to ensure compliance of the safety norms and measures as per SOP and deployment of safety equipment.</p>	<p>The outcomes expected from the job holder requires cognitive &amp; practical skills to ensure safety of employees &amp; workers, suggest solutions to specific problems. It also needs to exhibit proactive cooperation and collaboration with the other teams &amp; members for effective implementation of safety needs &amp; deployment of safety equipment.</p> <ul style="list-style-type: none"> <li>● Effective communication, initiative, flexibility, and an ability to induce collaboration.</li> <li>● Exhibits integrity, interpersonal understanding, and self-confidence.</li> <li>● Utilizes a systematic approach to apply knowledge in proactive guidance and problem solving.</li> <li>● Facilitate quality of work through timely communication,</li> </ul>	<p>5.5</p>

		<p>suggestions, deployment, and guidance.</p> <p>Suggest practical solutions to problems</p>	
<b>Broad Learning Outcomes/Core Skill</b>	<p>The job holder is expected to analyze the risks &amp; hazards, categorize, and find suitable methods for prevention and deploy the equipment's and ensure processes &amp; statutory requirements. He is also expected to have core skills to demonstrate team work, 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 &amp; process compliance needs &amp; checks. He is also expected to demonstrate; -</p> <ul style="list-style-type: none"> <li>● Time management</li> <li>● Effective guidance and communication</li> <li>● Ensure compliance to standards.</li> <li>● Ensure process compliance.</li> </ul> <p>Constructive feedback for improvement to all stakeholders.</p>	5
<b>Responsibility</b>	<p>The Job holder carries out inspection of 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"> <li>● Records preparation &amp; submission.</li> <li>● Timely feedback and guidance.</li> </ul> <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 &amp; learning and subordinates working under him. He needs to have adequate knowledge of the standard, safety measures and the statutes &amp; standards.</p>	5.5

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
1	Safety goggles	Nos	15
2	Full face shield	Nos	10
3	Leather gloves	Nos	9
4	Puncture resistant gloves	Nos	9
5	Chemical resistant gloves	Nos	9
6	Electrically insulated latex gloves	Nos	9
7	Safety helmets/hard hats	Nos	15
8	Ear plugs	Nos	15
9	Ear muffs	Nos	15
10	Safety shoes	Nos	15
11	Safety gumboots	Nos	15
12	High visibility jackets	Nos	15
13	N95 masks	Nos	15
12	Double filter half face mask	Nos	5
13	Double filter full face mask	Nos	5
14	SCBA – Self-contained breathing apparatus	Nos	1
15	Safety harness	Nos	15

No	Tools/Equipment Name	Specifications	Quantity for specified batch size
16	Lanyard	Nos	15
17	Fall arrestor	Nos	15
18	CO2 Fire extinguisher	Nos	25
19	Dry Chemical Powder Fire extinguisher	Nos	25
20	Fire hydrant system	Nos	1
21	Multiple gas detector	Nos	1
22	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**

Provide the summary information of all the industry validations in 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	-	<a href="mailto:chandrakantajnu@gmail.com">chandrakantajnu@gmail.com</a>	-
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	<a href="mailto:deepamcontractor@gmail.com">deepamcontractor@gmail.com</a>	-

9	IIT Guwahati	Dr. Sparsh Johari	Assistant Professor	Indian Institute of Technology, Guwahati	7827060976	<a href="mailto:sparshjohari@iitg.ac.in">sparshjohari@iitg.ac.in</a>	-
10	Ciria India Limited	Mr. Akash Nirvan	Head EHSS	C-116, 2 <sup>ND</sup> & 3 <sup>RD</sup> Floor, Sector-2, Noida- 201301, UP	8800377994	<a href="mailto:Akash.nirvan@morganplc.com">Akash.nirvan@morganplc.com</a>	-
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	-	<a href="mailto:Rahul.sinhal@intecc.com">Rahul.sinhal@intecc.com</a>	-
14	Ask EHS engineering & consultants Pvt ltd	Mahesh S Lanjekar	Business Head	Surat, Gujarat	9227695202	<a href="mailto:Mahesh.lanjekar@askehspmc.com">Mahesh.lanjekar@askehspmc.com</a>	-
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 25801080	-	-
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 (W), MUMBAI Mumbai City MH 400080 IN	02221675100	-	-

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, lGndhamal, 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	9885092 841 9515470 663	<a href="mailto:qhseakbar@gmail.com">qhseakbar@gmail.com</a> <a href="mailto:rangalamohanrao@gmail.com">rangalamohanrao@gmail.com</a>	-
22	Tata Project	SK Mohammad Ali Akbar	Safety Officer	Mumbai, Maharashtra, India	9040597 712	-	-
23	Reliance Industries Limited	Ravi Ballabh	GM, S&OR-Const. Safety		9725007 688	<a href="mailto:Ravi.ballabh@ril.com">Ravi.ballabh@ril.com</a>	-
24	Signify Innovation India Limited	Pradeep Singh Parhar	Manager Health & Safety	9 <sup>th</sup> floor, Building 9B, DLF cyber city, Gurugram-Haryana	9814721 820	<a href="mailto:Pradeep.parhar@signify.com">Pradeep.parhar@signify.com</a>	-
25	ASK EHS	Harshit Parikh	Business Development Overseas (HSE Recruitment & Projects)	Surat, Gujarat	6359922 897	<a href="mailto:harshitparikh@askehs.com">harshitparikh@askehs.com</a>	-
26	JSW	Veerendra Kumar	Safety Consultant			<a href="mailto:Veerendra.kumar@jsw.in">Veerendra.kumar@jsw.in</a>	-
27	Carrier India Limited	Md. Mukaram	Safety Head			<a href="mailto:md.mukaram@carrier.com">md.mukaram@carrier.com</a>	-

28	Kalpataru Group	Lalit Tiwari	President-EHS & Group chief sustainability officer			<a href="mailto:lalitkumar.tiwari@kalpataru.com">lalitkumar.tiwari@kalpataru.com</a>	-
29	United Fire & Safety Services	Sandeep Mehta	Owner	GIDC, Industrial estate, makarpura, Vadodara-390010	6358827798	<a href="mailto:Usafe.fire@gmail.com">Usafe.fire@gmail.com</a>	-
30	L&T Limited	Manish Gupta	HSE Head	L&T Energy- Hydrocarbon (HSE), Hazira			

NSQC

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	50	50	-	-
2025	500	500	100	100	-	-
2026	800	800	150	150	-	-

Data to be provided year-wise for next 3 years

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

Qualification Version	Year	Total Candidates				Women				People with Disability			
		Trained	Assessed	Certified	Placed	Trained	Assessed	Certified	Placed	Trained	Assessed	Certified	Placed

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
<b>SSD/N0117, v1.0: Occupational Safety, Health, and Environment (OSHE) Management.</b>	PC-1 Understand the concept of Health, Safety and Environment management at the workplace, its importance and the moral, financial and legal reasons for health and safety at the workplace.	3	3	-	-
	PC-2 Understand “Accident Cost- Iceberg” theory of direct and indirect cost incurred from an incident.	3	3	-	-
	PC-3 Understand the employer responsibilities in providing safe working conditions and the employee rights & responsibilities at a workplace, safety culture, its indicators and role of International Labor Organization in health & safety.	3	3	-	-
	PC-4 Understand safety Policy, the general statement of intent in a safety policy, its aim, objectives, and “SMART” concept of goal setting.	3	3	-	-
	PC-5 Understand the requirement of Plan-Do-Check-Act (PDCA) Cycle in safety management system; understand and analyze “Plan” & “Do” stages and “Check” and “Act” stages of PDCA cycle.	4	4	-	-
	PC-6 Understand the need of training, the contents of induction training & competent persons at the workplace, carry out “Toolbox talk” and “Induction training”.	4	4	-	-
	PC-7 Learn gas testing using – LEL sensor, O2 sensor, H2S sensor, Co Sensor.	4	4	-	-
	PC-8 Understand basic definitions- Flammable liquids, Combustible matter/liquids, Combustible gases, combustion, oxygen percentage in air, exothermic and endothermic reactions, radiation, understand the Fire triangle and classification fire. Understand the common reason for fire accidents.	3	3	-	-
	PC-9 Understand types of fire-fighting equipment, its principle of operation, components in different fire extinguishers, PASS technique & operation of fire hydrants.	3	3	-	-
	PC-10 Understand the use of smoke detectors, fire alarm, emergency lighting, flashing light, sprinklers, and pressure requirements in fire	3	3	-	-

	hydrants, PPE's, SCBA (Self-contained breathing apparatus) and use of SCBA.				
	PC-11 Understand the requirements of emergency evacuation – Escape route as per IS1644, emergency door, assembly point, evacuation, evacuation of differently abled, evacuation procedure, fire drills on emergency evacuation.	3	3	-	-
	PC-12 Understand the role of management in an organization, role of safety supervisor, safety executive, safety officer, safety engineer, and safety manager.	2	2	-	-
	PC-13 Understand fundamentals of process safety, OSHA standards. QRA, LOPA, SIL, FERA, EERA.	4	4		
	PC-14 Understand the role of occupier, controller of premise, role & need of contractors in the organization & work permit to contractors, role of safety committee.	4	4	-	-
	PC-15 Understand the selection prerequisites of a contractor, management of contractors, review meetings, safety committee meetings, method statements, accident reporting, training programs, statutory inspections, permit to work, gaps in contractor safety implementation of contractor safety.	4	4	-	-
	<b>NOS Total Marks</b>	<b>50</b>	<b>50</b>	-	-
<b>SSD/N0118, v1.0: Hazard Identification &amp; Risk Analysis</b>	PC-1 Understand hazards, unsafe conditions & acts, incidents & accidents; fatal, non-fatal, near miss incidents & accidents; lost time injury & first aid injury.	5	5	-	-
	PC-2 Understand hazard categories, controls, hierarchy of controls.	5	5	-	-
	PC-3 Understand hazards from electricity, fire, workplace hazard - work at height, confined space, working in an excavation, lone working, slips & trips, lifting and Rigging hazards	5	5	-	-
	PC-4 Understand different hazard categories & control: Hazardous substances, Musculoskeletal disorders, manual handling, and load handling equipment, noise, vibration, radiation, mental ill- health, violence at work, abuse at workplace.	5	5	-	-
	PC-5 Understand basic definitions- incident, accident, Injury, lost time injury, unsafe condition, unsafe Acts, dangerous occurrences, hazards, error, near miss.	3	3	-	-

	PC-6 Understand 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".	3	3	-	-
	PC-7 Calculate "Frequency rate & Incident rate". Calculate "Lost time case rate"	2	2	-	-
	PC-8 Calculate "DART rate". Calculate "Severity rate"	2	2	-	-
	PC-9 Understand "Fault tree analysis" and "Event tree analysis", "HAZOP-Hazard, operability analysis" and "Job safety analysis".	5	5	-	-
	PC-10 Understand "Hazard Identification and risk assessment".	5	5	-	-
	PC-11 Learn the hierarchy of controls, Importance of hierarchy of control & steps in hierarchy of control	5	5	-	-
	PC-12 Understand Maslow's theory of Hierarchical Needs, Hertzberg's two-factor theory and McClelland's theory of needs, Vroom's Theory of Expectancy, McGregor's theory X and theory Y and Alderfer's ERG theory	5	5	-	-
	<b>NOS Total Marks</b>	<b>50</b>	<b>50</b>	-	-
<b>SSD/N0119, v1.0: Investigating of Occupational Safety and Health Incidents</b>	PC-1 Understand categories of incidents & accidents; fatal, non-fatal, near miss incidents & accidents; lost time injury & first aid injury	5	5	-	-
	PC-2 Understand hazards and causes involved; unsafe conditions, accidents, acts, natural causes, mistakes, technology failure, lack of training & awareness, behavioral, poor maintenance, failures, weather & environment etc.	5	5	-	-
	PC-3 Understand reasons & causes involved; fire, electricity, machine, equipment's, movement of vehicles & equipment, confined area, working at height, working at depth, storage, chemical, nuclear etc.	5	5	-	-
	PC-4 Understand techniques of investigation; iterative, interrogative technique used to explore the cause-and-effect relationships underlying a problem, fault finding.	5	5	-	-
	PC-5 Planning of immediate action, understanding of incidents, interaction with staff, data collection, data analysis.	5	5	-	-
	PC-6 Identify factors, the circumstances & causes leading to the accidents, and carry out root cause analysis,	5	5	-	-
	PC-7 Prepare fundamental information, reasons, damages, injuries, financial losses.	5	5	-	-
	PC-8 Prepare affected individuals, materials, equipment's, effect on morale of workforce, financial effect.	5	5	-	-

	PC-9 Prepare the corrective action and preventive actions to be taken to prevent and avoid such accidents or incidents.	5	5	-	-
	PC-10 List out measures, resources required, training & facilities for staff and time lines for actions and responsibilities of departments.	5	5	-	-
	<b>NOS Total Marks</b>	<b>50</b>	<b>50</b>	-	-
<b>SSD/N0120, v1.0: Conducting Workplace Inspections for OSHE</b>	PC-1 Understand inspection techniques of the workplace for hazards & risks; visual, processes, maintenance, equipment operation, safeguards provided and others.	4	4	-	-
	PC-2 Identify workplace practices and determine aspects of operations, process, action, movements, places which can be unsafe.	4	4	-	-
	PC-3 Identify existing and potential hazards. Examine equipment and determine whether safeguards are sufficient. Identify changes to work areas which may pose new risks.	4	4	-	-
	PC-4 Establish the procedures to eliminate these hazards, or otherwise guard/protect against them.	4	4	-	-
	PC-5 Monitor effectiveness of previous corrective actions and safety standards are being maintained.	4	4	-	-
	PC-6 Understand & prepare standard operating procedure related to OSHE	5	5	-	-
	PC-7 Understand the documents, record incident report, previous report maintained by the organization affecting OSHE and carry out inspection with stand operating procedures.	5	5	-	-
	PC-8 Understand and prepare checklist & questionnaire for inspection and able to take input from staff, management, and workers.	5	5	-	-
	PC-9 Prepare and list inputs and information from inspection.	5	5	-	-
	PC-10 Analyze and prepare details of deviations & gaps and effect on safety, health, environment, probable effect on operation & finances.	5	5	-	-
	PC-11 List out measures, resources required, training & facilities for staff and time lines, responsibilities of departments to bridge the gaps, future requirement, and submission of the report.	5	5	-	-
	<b>NOS Total Marks</b>	<b>50</b>	<b>50</b>	-	-
	PC-1 Understand environment & atmospheric pollution, water pollution, land pollution, noise pollution, air quality, ill effects, and control.	10	10	-	-
	PC-2 Understand types of waste, its disposal techniques, and concepts of effluent treatment plants.	10	10	-	-

<b>SSD/N0112, v1.0:</b> <b>Pollution &amp; Environment Management, Global warming and sustainability</b>	PC-3 Hazardous waste management & 6R's.	5	5	-	-
	PC-4 Understand the regulatory requirements of Central Pollution Control Board & State Pollution Control Board and Environment Protection Act, 1986" & KYOTO protocol.	5	5	-	-
	PC-5 Learn about remote sensing, air monitoring, biological monitoring, soil monitoring and water monitoring.	5	5	-	-
	PC-6 Understand EIA- Environmental impact assessment and LCI- Life cycle Impact assessment.	5	5	-	-
	PC-7 Understand global warming and climate change, greenhouse gases & greenhouse effect, carbon cycle, carbon footprints, carbon neutrality & Carbon credits.	4	4	-	-
	PC-8 Understand ozone layer, ozone layer depletion, elements affecting ozone layer, acid rain, wet deposition, dry deposition, and its factors.	3	3	-	-
	PC-9 Understand the meaning of Eco-friendly, energy conservation methods using solar, hydro, wind, biomass, water, and harvesting.	3	3	-	-
	<b>NOS Total Marks</b>	<b>50</b>	<b>50</b>	<b>-</b>	<b>-</b>
<b>SSD/N0109, v1.0: Statutes &amp; Legislative requirements in Health &amp; Safety.</b>	PC-1 Apply regulatory obligations pertaining to safety, health, and environmental compliance in accordance with the BOCW Act of 1996.	4	4	-	-
	PC-2 Apply regulatory obligations pertaining to safety, health & environment compliance as per Factories Act, 1948.	4	4	-	-
	PC-3 Apply regulatory obligations pertaining to safety, health & environment compliance as per OSH Code 2020 & Occupational Safety & Health Administration (OSHA) compliance requirements.	4	4	-	-
	PC-4 Apply regulatory obligations pertaining to Environment Protection Act, 1986 & ILO Guidelines related to EHS.	3	3	-	-
	PC-5 Apply regulatory obligations pertaining to Oil Industry Safety Directorate (OSID) Guidelines	4	4	-	-
	PC-6 Apply regulatory obligations pertaining to Mines Vocational Training Rules – DGMS	4	4	-	-
	PC-7 Apply regulatory obligations pertaining to Electricity Act 2010 & 2003	3	3	-	-
	PC-8 Apply regulatory obligations pertaining to National Building Code (NBC) – 2016	3	3	-	-
	PC-9 Apply regulatory obligations pertaining to National Fire Protection Association regulations.	4	4	-	-

	PC-10 Apply regulatory obligations pertaining to Petroleum & Explosive Safety Organization (PESO)-Explosive Act 1884.	3	3	-	-
	PC-11 Apply regulatory obligations pertaining to Gas Cylinders Rule 2016	3	3	-	-
	PC-12 Apply regulatory obligations pertaining to The Boilers Act 1923	2	2	-	-
	PC-13 Apply regulatory obligations pertaining to Workmen Compensation Act 1923 & Employee State Insurance Act 1948 and related compliance.	3	3		
	PC-14 Apply regulatory obligations pertaining to Motor vehicle Act 1988	3	3		
	PC-15 Apply regulatory obligations pertaining to First Aid at workplaces and training on first aid.	3	3		
	<b>NOS Total Marks</b>	<b>50</b>	<b>50</b>	-	-
<b>SSD/N0104, v1.0: Plan, Organize and Emergency protocols</b>	PC-1 Planning of safety resources, schedules, measures, and timelines for readiness as per overall work timelines.	5	5	-	-
	PC-2 Communication to other team members, co-workers, subordinates & superiors, and coordination with other team members.	5	5	-	-
	PC-3 Task identification and allotment 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.	6	6	-	-
	PC-5 Communicate & brief to concerned co-workers, subordinates & superiors, provide guidance to subordinate & co-workers for timely and correct completion.	6	6	-	-
	PC-6 Supervision & monitoring progress of work, reporting the progress & completion, preparation of reports & documents.	6	5	-	-
	PC-7 Set up medical emergency measures, in case of accidents/incidents at the workplace.	6	6	-	-
	PC-8 Set up fire emergency measures as per plans in case of any fire accidents at the workplace.	6	6	-	-
	PC-9 Set up emergency assembly area, evacuation plan, sign boards and guidance.	5	6	-	-
	<b>NOS Total Marks</b>	<b>50</b>	<b>50</b>	-	-
<b>DGT/VSQ/N0102: Employability Skills</b>	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	0.5	0.5	-	-

personal values and ethics such as honesty, integrity, caring and respecting others, etc.				
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	-	-
<b>Total Marks</b>	<b>25</b>	<b>25</b>	-	-
<b>Grand Total</b>	<b>375</b>	<b>375</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) 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
- 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
<b>National Occupational Standards (NOS)</b>	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.
<b>Qualification</b>	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
<b>Qualification File</b>	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.
<b>Sector</b>	A grouping of professional activities based on their main economic function, product, service, or technology.
<b>Long Term Training</b>	Long-term skilling means any vocational training program undertaken for a year and above. <a href="https://ncvet.gov.in/sites/default/files/NCVET.pdf">https://ncvet.gov.in/sites/default/files/NCVET.pdf</a>

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