



## QUALIFICATION FILE

### Front Line Junior Supervisor (Construction)

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: 4.5

Submitted By:

MSME TECHNOLOGY CENTRE

O/o DC MSME, Ministry of Micro, Small and Medium Enterprises

Govt. of India

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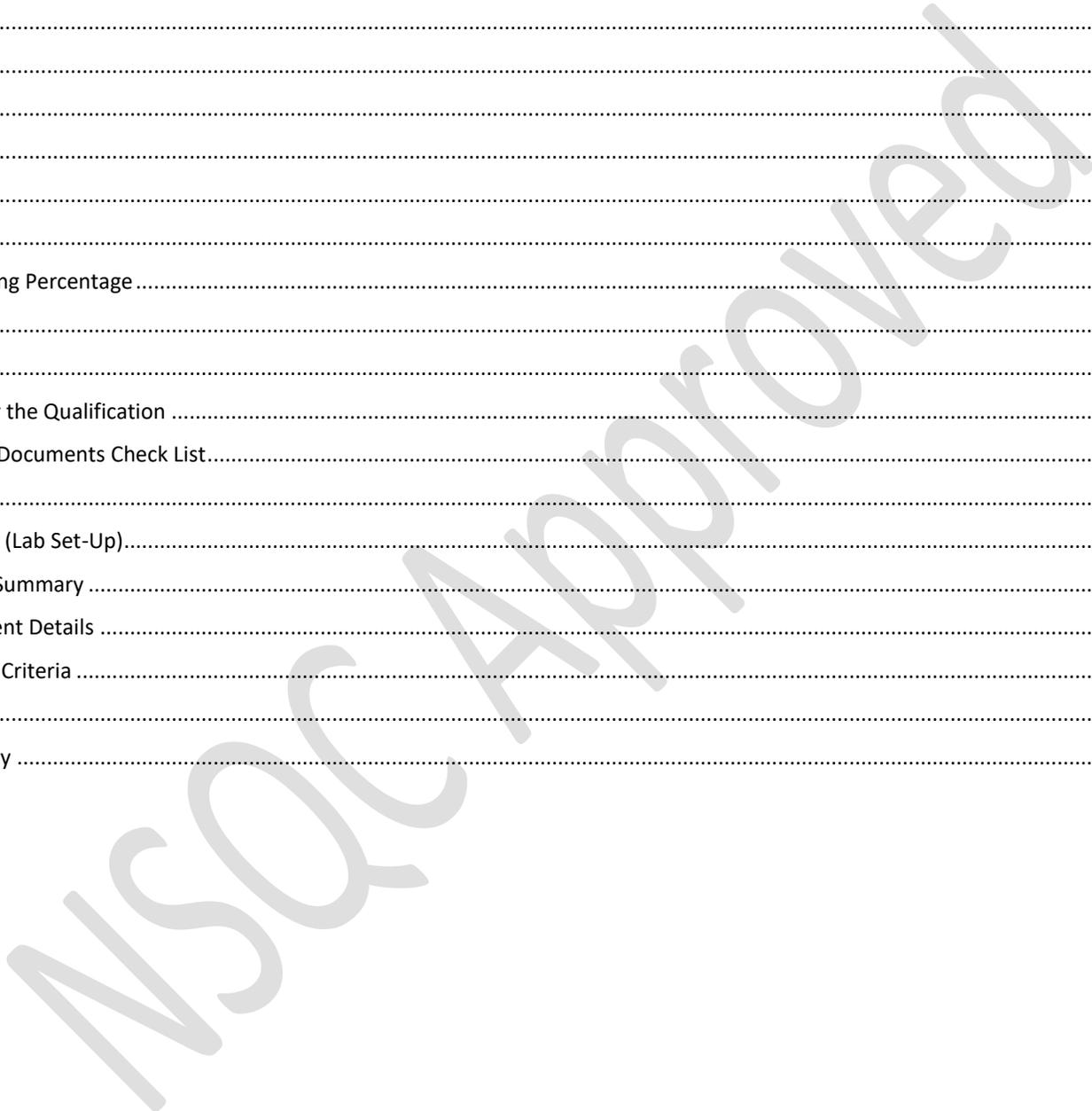
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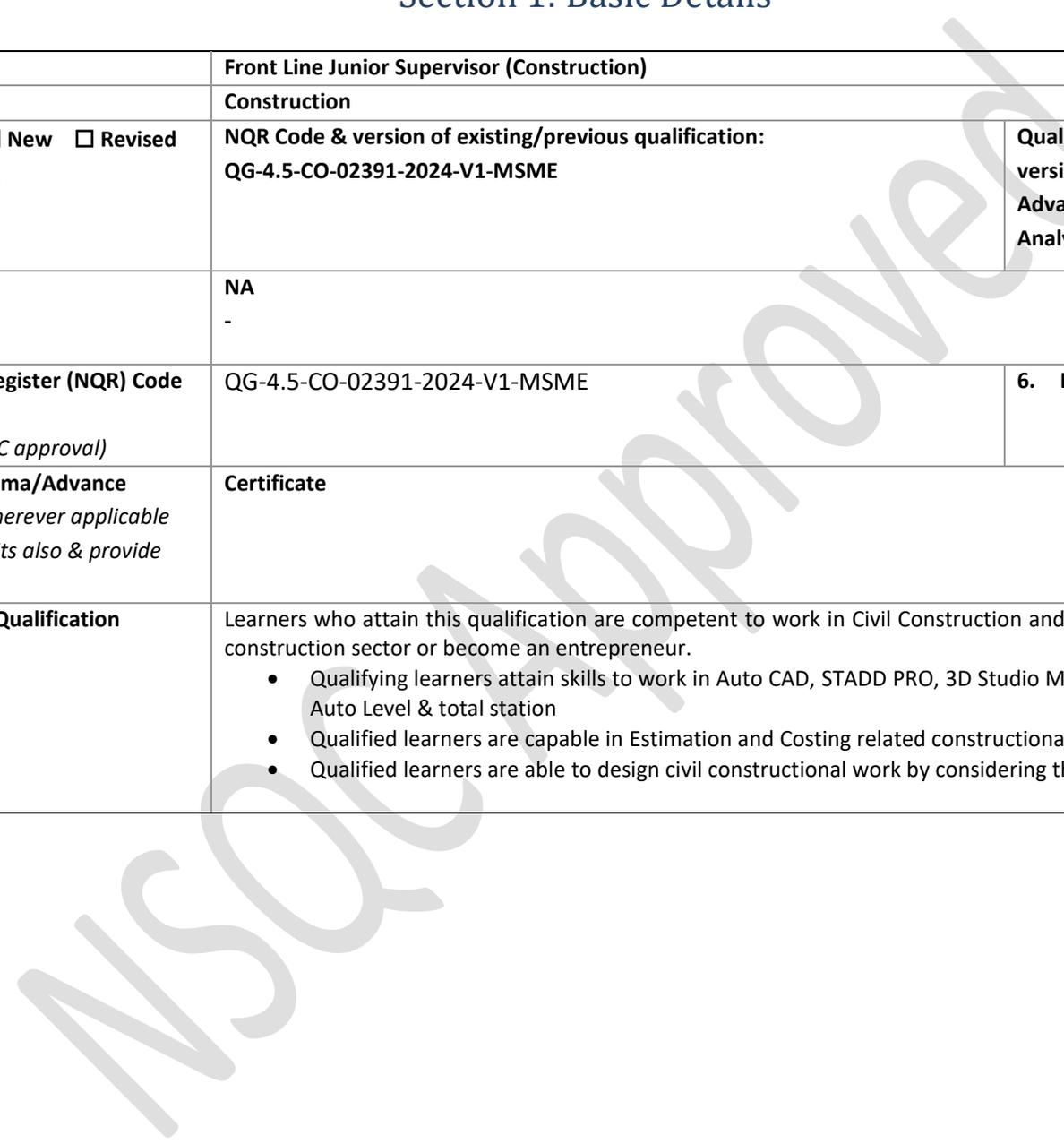
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### Section 1: Basic Details

1.	<b>Qualification Name</b>	Front Line Junior Supervisor (Construction)	
2.	<b>Sector/s</b>	Construction	
3.	<b>Type of Qualification:</b> <input checked="" type="checkbox"/> New <input type="checkbox"/> Revised <input type="checkbox"/> Has Electives/Options <input type="checkbox"/> OEM	<b>NQR Code &amp; version of existing/previous qualification:</b> QG-4.5-CO-02391-2024-V1-MSME	<b>Qualification Name of existing/previous version:</b> Advance Diploma in Structural Design and Analysis (ADSDA)
4.	a. OEM Name b. Qualification Name (Wherever applicable)	NA -	
5.	<b>National Qualification Register (NQR) Code &amp;Version</b> (Will be issued after NSQC approval)	QG-4.5-CO-02391-2024-V1-MSME	6. NCrF/NSQF Level: 4.5
7.	<b>Award (Certificate/Diploma/Advance Diploma/ Any Other</b> (Wherever applicable specify multiple entry/exits also & provide details in annexure)	Certificate	
8.	<b>Brief Description of the Qualification</b>	Learners who attain this qualification are competent to work in Civil Construction and can get a job in a captive or commercial construction sector or become an entrepreneur. <ul style="list-style-type: none"> <li>• Qualifying learners attain skills to work in Auto CAD, STADD PRO, 3D Studio MAX, REVIT, Adobe Photoshop, GPS , DGPS Auto Level &amp; total station</li> <li>• Qualified learners are capable in Estimation and Costing related constructional work</li> <li>• Qualified learners are able to design civil constructional work by considering the strength of Civil Structure</li> </ul>	



<p>9.</p>	<p><b>Eligibility Criteria for Entry for Student/Trainee/Learner/Employee</b></p>	<p>a) Entry Qualification &amp; Relevant Experience: Qualification &amp; Relevant Experience in the field of Civil Engineering &amp; its Equivalent</p> <p>a) Age: 17 Years</p> <table border="1" data-bbox="741 293 2107 671"> <thead> <tr> <th>S. No.</th> <th>Academic/Skill Qualification (with Specialization - if applicable)</th> <th>Required Experience (with Specialization - if applicable)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Completed 3-year diploma after 10th</td> <td>Nil</td> </tr> <tr> <td>2</td> <td>Pursuing 3rd year of 3-year diploma after 10<sup>th</sup> and continuing regular education</td> <td>Nil</td> </tr> <tr> <td>3</td> <td>Completed 1<sup>st</sup> year of 3-year/ 4-years UG,</td> <td>Nil</td> </tr> <tr> <td>4</td> <td>Previous relevant Qualification of NSQF Level 4 in the field of Civil Engineering</td> <td>1 year relevant experience</td> </tr> </tbody> </table>						S. No.	Academic/Skill Qualification (with Specialization - if applicable)	Required Experience (with Specialization - if applicable)	1	Completed 3-year diploma after 10th	Nil	2	Pursuing 3rd year of 3-year diploma after 10 <sup>th</sup> and continuing regular education	Nil	3	Completed 1 <sup>st</sup> year of 3-year/ 4-years UG,	Nil	4	Previous relevant Qualification of NSQF Level 4 in the field of Civil Engineering	1 year relevant experience									
S. No.	Academic/Skill Qualification (with Specialization - if applicable)	Required Experience (with Specialization - if applicable)																													
1	Completed 3-year diploma after 10th	Nil																													
2	Pursuing 3rd year of 3-year diploma after 10 <sup>th</sup> and continuing regular education	Nil																													
3	Completed 1 <sup>st</sup> year of 3-year/ 4-years UG,	Nil																													
4	Previous relevant Qualification of NSQF Level 4 in the field of Civil Engineering	1 year relevant experience																													
<p>10.</p>	<p><b>Credits Assigned to this Qualification, Subject to Assessment (as per National Credit Framework (NCrF))</b></p>	<p>20</p>				<p><b>11. Common Cost Norm Category (I/II/III) (wherever applicable): I</b></p>																									
<p>12.</p>	<p><b>Any Licensing requirements for Undertaking Training on This Qualification (wherever applicable)</b></p>	<p>NA</p>																													
<p>13.</p>	<p><b>Training Duration by Modes of Training Delivery (Specify Total Duration as per selected training delivery modes and as per requirement of the qualification)</b></p>	<p><input type="checkbox"/>Offline <input type="checkbox"/>Online <input checked="" type="checkbox"/>Blended</p> <table border="1" data-bbox="741 938 2107 1141"> <thead> <tr> <th>Training Delivery Modes</th> <th>Theory (Hours)</th> <th>Practical (Hours)</th> <th>OJT Mandatory (Hours)</th> <th>OJT Recommended (Hours)</th> <th>Total (Hours)</th> </tr> </thead> <tbody> <tr> <td>Classroom (offline)</td> <td>30</td> <td>420</td> <td>60</td> <td>-</td> <td>510</td> </tr> <tr> <td>Online</td> <td>90</td> <td>-</td> <td>-</td> <td>-</td> <td>90</td> </tr> <tr> <td><b>Total</b></td> <td>120</td> <td>420</td> <td>60</td> <td>-</td> <td>600</td> </tr> </tbody> </table> <p>(Refer Blended Learning Annexure for details)</p>						Training Delivery Modes	Theory (Hours)	Practical (Hours)	OJT Mandatory (Hours)	OJT Recommended (Hours)	Total (Hours)	Classroom (offline)	30	420	60	-	510	Online	90	-	-	-	90	<b>Total</b>	120	420	60	-	600
Training Delivery Modes	Theory (Hours)	Practical (Hours)	OJT Mandatory (Hours)	OJT Recommended (Hours)	Total (Hours)																										
Classroom (offline)	30	420	60	-	510																										
Online	90	-	-	-	90																										
<b>Total</b>	120	420	60	-	600																										
<p>14.</p>	<p><b>Aligned to NCO/ISCO Code/s (if no code is available mention the same)</b></p>	<p><b>2142.0300 ( Civil Engineer, Structural)</b></p>																													
<p>15.</p>	<p><b>Progression path after attaining the qualification (Please show Professional and Academic progression)</b></p>	<p><b>Professional / Career Progress:</b> Project Coordinator</p> <p><b>Academic Progress:</b> Project Coordinator ( NSQF Level 5)</p>																													

16.	Other Indian languages in which the Qualification & Model Curriculum are being submitted	Hindi
17.	Is similar Qualification(s) available on NQR- if yes, justification for this qualification	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No URLs of similar Qualifications:
18.	Is the Job Role Amenable to Persons with Disability	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If "Yes", specify applicable type of Disability: <i>as per government norms</i>
19.	How Participation of Women will be Encouraged	Seats are reserved as per Govt. Norms
20.	Are Greening/ Environment Sustainability Aspects Covered (Specify the NOS/Module which covers it)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No The said aspect is covered in the module name Employability Skills & Entrepreneurship
21.	Is Qualification Suitable to be Offered in Schools/Colleges	Schools <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Colleges <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
22.	Name and Contact Details of Submitting / Awarding Body SPOC (In case of CS or MS, provide details of both Lead AB & Supporting Abs)	Name: Sh. Vijay Mahipatrao Bankar Contact No. +0755 3501078 <a href="mailto:Email-msmetcab@gmail.com">Email-msmetcab@gmail.com</a>
23.	Final Approval Date by NSQC: 30.04.2024	24. Validity Duration: 3years
		25. Next Review Date: 30.04.2027

## 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 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 <i>(if applicable)</i>	Core/ Non-Core	NCrF /NSQ F Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man	OJT-Rec.	Total	Th.	Pr.	Proj.	Viva	Total	Weightage (%) <i>(if applicable)</i>
1.	Sketch Architectural drawings, section view,3D View.	MSME/ADSDA/01	Core	4.5	3	30	60	-	-	90	100	100	-	-	100	
2.	Analyze concrete & steel structures, applying properties & loads. Design exterior/interior, Render with 3Ds MAX & Revit, create color/shadow in Photoshop.	MSME/ADSDA/02	Core	4.5	11	30	240	60	-	330	100	100	-	100	100	
3.	Use of building materials and their function and construction procedure.	MSME/ADSDA/03	Core	4.5	1	30	-	-	-	30	100	-	-	-	100	
4.	Intro to surveying, leveling, types, GPS/DGPS function & uses.	MSME/ADSDA/04	Core	4.5	2	30	30	-	-	60	100	100	-	-	100	
5.	Estimation of building with rate analysis of civil works.	MSME/ADSDA/05	Core	4.5	1	30	-	-	-	30	100	-	-	-	100	
6.	Employability Skills	MSME/ES/02	None Core	4.5	2	60	-	-	-	60	100	-	-	-	100	
<b>Duration (in Hours) / Total Marks</b>					20	210	330	60		600	600	300	-	100	1000	

**Elective NOS/s: NA**

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.																
2.																
<b>Duration (in Hours) / Total Marks</b>																

**Optional NOS/s: NA**

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.																
2.																
<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:** \_\_\_\_% (Every Trainee should score specified minimum aggregate passing percentage at qualification level to successfully clear the assessment.)

- Minimum Marks to pass Theory Exam: 40%
- Minimum Marks to pass Practical Exam: 60%

**Minimum Pass Percentage – NOS/Module-wise:** \_\_\_\_% (Every Trainee should score specified minimum passing percentage in each mandatory and selected elective NOS/Module to successfully clear the assessment.)

- Minimum Marks to pass Theory Exam: 40%
- Minimum Marks to pass Practical Exam: 60%

### Section 3: Training Related

1.	<b>Trainer's Qualification and experience in the relevant sector (in years) (as per NCVET guidelines)</b>	Diploma/ Degree in Civil Engineering or Equivalent with Practical skills and knowledge required in the relevant job role at least one level higher i.e. level 5 and above in related field and minimum 2 years of experience in Tool Room/ Technology Centre of MSME or any reputed industry will become a trainer, Or in accordance with the TOT guideline of NCVET.
2.	<b>Master Trainer's Qualification and experience in the relevant sector (in years) (as per NCVET guidelines)</b>	Degree in Civil Engineering or equivalent with 3 to 5 years of experience in Production/ Training/ Design Department from Tool Room/ Technology Centre of MSME or any reputed industry will become as a Master Trainer, Or in accordance with the TOT guideline of NCVET.
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>	Yes

### Section 4: Assessment Related

1.	<b>Assessor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines)</b>	Diploma / Degree in Civil Engineering or equivalent with 3 years of experience in Production/ Training/ Design Department from Tool Room/ Technology Centre of MSME or any reputed industry.
2.	<b>Proctor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines)</b>	Only (TOA) certified assessors will be able to conduct the assessments.
3.	<b>Lead Assessor's/Proctor's Qualification and experience in relevant sector (in years) (as per NCVET guidelines)</b>	Degree in Civil Engineering or equivalent With 5 years of experience in Production/ Training/ Design Department from Tool Room/ Technology Centre of MSME or any reputed industry.
4.	<b>Assessment Mode (Specify the assessment mode)</b>	<b>Blended Type (Online + Offline)</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 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, India Skills Report 2023, “ Roadmap to India’s Skills and talent Economy 2030”
2.	<b>Latest Market Research Reports or any other source (not older than 2 years) (Yes/No):</b> Yes, <a href="https://www.grandviewresearch.com/industry-analysis/civil-engineering-market">https://www.grandviewresearch.com/industry-analysis/civil-engineering-market</a>
3.	<b>Government /Industry initiatives/ requirement (Yes/No):</b> Yes
4.	<b>Number of Industry validation provided:</b> 15
5.	<b>Estimated nos. of persons to be trained and employed:</b> 6000 approx. per year
6.	<b>Evidence of Concurrence/Consultation with Line Ministry/State Departments:</b> If “No”, why: Yes

### Section 6: Annexure & Supporting Documents Check List

Specify Annexure Name / Supporting document file name

1.	<b>Annexure:</b> NCrf/NSQF level justification based on NCrf level/NSQF descriptors (Mandatory)	Annexure-I
2.	<b>Annexure:</b> List of tools and equipment relevant for qualification (Mandatory, except in case of online course)	Annexure-II
3.	<b>Annexure:</b> Industry Validations Summary	Annexure-III
4.	<b>Annexure:</b> Training & Employment Details	Annexure-IV
5.	<b>Annexure:</b> Blended Learning (Mandatory, in case selected Mode of delivery is “Blended Learning”)	Annexure-V
6.	<b>Annexure:</b> Detailed Assessment Criteria (Mandatory)	Annexure-VI
7.	<b>Annexure:</b> Assessment Strategy (Mandatory)	Annexure-VII
8.	<b>Annexure:</b> Acronym and Glossary (Optional)	Annexure- VIII
9.	<b>Annexure:</b> Multiple Entry-Exit Details (Mandatory, in case qualification has multiple Entry-Exit)	NA

10.	<b>Supporting Document:</b> Model Curriculum (Mandatory – Public view)	Annexure- IX
11.	<b>Supporting Document:</b> Career Progression (Mandatory – Public view)	This aspect mentioned in point no. 15
12.	<b>Supporting Document:</b> Occupational Map (Mandatory)	Annexure-X
13.	<b>Supporting Document:</b> Assessment SOP (Mandatory)	Annexure- XI
14.	Any other document you wish to submit:	NA

### Annexure I: 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>	This qualification identifies and exhibits wide range of well-developed skill set with clear knowledge required to prepare drawings of Civil Engineering structures along with the analyzing the strength of the structures according to standard and non-standard requirements.	<ul style="list-style-type: none"> <li>Advanced Diploma in Structural Design and Analysis (ADSDA) Job holder is expected to execute the design and analysis process required for various structural members like columns, beams, trusses, etc.</li> <li>Advanced Diploma in Structural Design and Analysis (ADSDA) Job holder’s behavior in various type of load conditions which requires well developed knowledge in designing and analysis under different conditions</li> </ul>	<b>4.5</b>
<b>Professional and Technical Skills/ Expertise/ Professional Knowledge</b>	The curriculum of the qualification covers wide range thorough understanding and knowledge of different type of Structural Analysis & Design, Engineering Drawing, Site survey, Estimation and Costing, total station, leveling, surveying, GPS etc.	<ul style="list-style-type: none"> <li>Advanced Diploma in Structural Design and Analysis (ADSDA) Job holder Job holders needs to have in depth knowledge and understanding Analysis &amp; Designs of different Structures(Concrete &amp; Steel), engineering drawing, properties and strength of building construction materials, site survey, Estimation and costing, Building rules and regulations etc.</li> </ul>	<b>4.5</b>

<p><b>Employment Readiness &amp; Entrepreneurship Skills &amp; Mind-set/Professional Skill</b></p>	<p>The qualification have the ability to apply practical knowledge and understanding in interpreting the building and architectural drawings. It can perform various operations required to designing analyzing and preparing the civil structures systematically within the boundary of Building Rules and regulations applicable in India. It imparts detail in depth skill to use different types of instruments to maintain the desired quality and durability of the structures.</p>	<ul style="list-style-type: none"> <li>Advanced Diploma in Structural Design and Analysis (ADSDA) Job holder is engaged in tasks such as designing, drafting, analyzing and interpreting structural Drawing, making site survey using appropriate work stations within the quality framework and norms.</li> <li>These activities are variable in nature basing on the geographical conditions of the locality.</li> </ul>	<p><b>4.5</b></p>
<p><b>Broad Learning Outcomes/Core Skill</b></p>	<p>The curriculum contains reasonably good numerical abilities, mathematical calculations required for analyzing the data, employability skills to receive, provide, and transmit information logically to the appropriate person or the group involved in the activities. Use of appropriate measuring techniques, units, and number systems to express degree of accuracy units and number systems representing degree of accuracy. Analysis and Interpretation of mechanical strength of any structural members along with ratio and proportions of building materials. Should be able to communicate to the appropriate person in regards to health, safety, first aid etc.</p>	<ul style="list-style-type: none"> <li>Advanced Diploma in Structural Design and Analysis (ADSDA) job holder needs to have Generic Skills of writing, Oral and Communication Skills. Job holder needs Document post production requirements.</li> <li>Advanced Diploma in Structural Design and Analysis (ADSDA) Job Holder understands the project requirements/client requirement which requires reasonably good clarity in oral and the written skills and while working on the content he needs to be aware of the social, political and natural environment.</li> <li>Also the job holder is competent enough to prepare the estimation and costing sheet by gathering analytical and logical data for the successful project implementation.</li> </ul>	<p><b>4.5</b></p>
<p><b>Responsibility</b></p>	<p>Check-up procedures to ensure that project objectives are finished within specified time frames are developed. Checkup procedures to ensure that agreed ethical and legal requirements are met are drawn.It responsible for own work and learning along with full responsibility for other works and learning. The Job holder is expected to have openness to learning, ability to plan and organize own work and identify and solve problems in the course of working with in the team. Understanding the need to take initiative and manage him/herself and others and work to improve efficiency and effectiveness.</p>	<ul style="list-style-type: none"> <li>Advanced Diploma in Structural Design and Analysis (ADSDA) Job holder is required to carry out functions such as engineering drawing reading, operating civil construction equipment, analyze the strength, look and durability of the structural members within specified requirement.</li> <li>In these activities job holder is doing the tasks independently and guiding others as and when required.</li> </ul>	<p><b>4.5</b></p>

		<ul style="list-style-type: none"> <li>• He/she is responsible for his/her own learning and others learning during the execution of the task.</li> </ul>	
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### Annexure II: Tools and Equipment (Lab Set-Up)

List of Tools and Equipment

Batch Size: 20

S. No.	Tool / Equipment Name	Specification	Quantity for specified Batch size
1.	<b>Computers</b>	INDUSTRY STANDARD	20 nos.
1.	<b>Software Licenses-</b> Auto-CAD, STAAD. Pro, 3ds Max, Photoshop, Revit		20 nos. each
2.	<b>Surveying Instruments-</b> Auto Level, Total Station , GPS & DGPS		2 nos. each
3.	<b>General Equipment for Classroom:</b> White Board, Smart Board, Duster, Marker, Multimedia /LCD Projector, Audio Video Aids, Pen drive and Practice exercise etc.,.		1 Set

### 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	Unique Enterprises	Partha Roy	Proprieter	.S.- Dasnagar, Howrah-711 13	98741 27130	<a href="mailto:partha@enterprisesindia.com">partha@enterprisesindia.com</a>	
2	SHIV ENGINEERS	S.Maity	Proprieter	BALITIKURI, HOWRAH – 711 113	7980872335	<a href="mailto:shivengineer1980@gmail.com">shivengineer1980@gmail.com</a>	
3	SK Synthetics	MANISH JAIN	CEO	40 STRAND RD,3 <sup>RD</sup> FLOOR KOLKATTA-700001	9331022044	<a href="mailto:SKSYNTHETICS@HOTMAIL.COM">SKSYNTHETICS@HOTMAIL.COM</a>	
4	A. C. STEEL TRADING CORPORATION	A. C. JASWAL	PROPRIETER	BELILIOUS RD,LOAN BAZER,ROOM-141,142, HOWRAH-711101	9830073612	<a href="mailto:ACSTEEL_2004@YAHOO.CO.IN">ACSTEEL_2004@YAHOO.CO.IN</a>	
5	CALCUTTA TECHNO HEATERS (INDIA) PVT. LTD	M. K. SAHA	DIRECTOR	22A, DUM DUM ROAD, KOLKATA – 700 002	9831086241	<a href="mailto:MKSOC55@GMAIL.COM">MKSOC55@GMAIL.COM</a>	
6	Arrow Aviation	Sanjib De	Quality Managaer	53/1/3, Hazra Road, Kolkata – 700019	9831092407	<a href="mailto:qualitymanager@arrowaviation.com">qualitymanager@arrowaviation.com</a>	
7	MAX MILL Technologies	PRADEEP SHARMA	MANAGER	172/1,Ashokgarh,Dunlop, Baranagar, Kolkata-700108	7003462714	<a href="mailto:maxmilltechnologies@gmail.com">maxmilltechnologies@gmail.com</a>	
8	SPECIAL ENGINEERING SERVICES LTD.	ASHIM GANGULY	JR. Factory Manager	16, COSSIPORE ROAD, KOLKATA-700 002	913325578434	<a href="mailto:sescatcn@cal2.vsl.net.in">sescatcn@cal2.vsl.net.in</a>	
10	ABHAYA PRECISION INDUSTRIES PVT LTD	Abhesek Ghosh	Managing Director	70/2,YOURIBANI LANE,KOLKATTA-04	9831617997	<a href="mailto:MAIL@ABHAYAMD.COM">MAIL@ABHAYAMD.COM</a>	
11	SATYANARAYANENGINEERINGWORKS	NILANGSHU GHARUI	MANAGER	SHANPUR, DAONAGAR, HW-711105	7980278984	<a href="mailto:DATYANARAYANEGG@GMAIL.COM">DATYANARAYANEGG@GMAIL.COM</a>	
12	SHREE RADHA KRISHNA INDUSTRIES	MANI BHUSHAN SINGH	Proprieter	1/1d, Joy Krishna Ghosal Road, Ariadaha, Rathtala, Kolkata-700 057	9883368597	<a href="mailto:SHREERADHAKRISHNA21@GMAIL.COM">SHREERADHAKRISHNA21@GMAIL.COM</a>	
13	NSCB AVIATION (P) LIMITED	SUBHASISH HALDER	DIRECTOR	34, Scout Para, Ganga Nagar, Kolkata 700132	8910627096	<a href="mailto:subhasish.haldar@nscbaviation.com">subhasish.haldar@nscbaviation.com</a>	
14	SSK PRECISION COMPONENTS Mfg. Put. LTD.	SOUVIK SINHA	DIRECTOR	P31, KB.. Roy Garden, Garia Station Road, Kolkata-84	9831065851	<a href="mailto:SSKCNC@REDIFFMAIL.COM">SSKCNC@REDIFFMAIL.COM</a>	
15	Green Dimension Architects	Monika Pritam Dash	Principal Architect	Flat no 005, Paras Plaza, Tinikonia Bagicha, Cuattck – 753001	9437036160	<a href="mailto:greeniarch@gmail.com">greeniarch@gmail.com</a>	

### Annexure: Training & Employment Details

#### Training and Employment Projections:

Front Line Junior Supervisor (Construction)

Year	Total Candidates		Women		People with Disability	
	Estimated Training #	Estimated Employment Opportunities	Estimated Training #	Estimated Employment Opportunities	Estimated Training #	Estimated Employment Opportunities
24-25	3000	2400	750	650	-	-
25-26	5000	4000	1250	950	-	-
26-27	8000	6400	2000	1800	-	-

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
1.0	20-21	211	211	211	180	100	100	100	80	-	-	-	-
1.0	21-22	532	532	532	510	250	250	250	180	-	-	-	-
1.0	22-23	1411	1411	1411	1350	450	450	450	350	-	-	-	-

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:**

1. Fee based Training Program under the Ministry of MSME.
2. ESDP Scheme under the Ministry of MSME.
3. Capacity building Training program under National SC/ST Hub, M/o MSME, GOI
4. Schemes under the different state Government

**Content availability for previous versions of qualifications:**

Participant Handbook  Facilitator Guide  Digital Content  Qualification Handbook  Any Other:

**Languages in which Content is available:**

**ENGLISH**

Annexure: Blended Learning

**Blended Learning Estimated Ratio & Recommended Tools:**

Refer NCVET “Guidelines for Blended Learning for Vocational Education, Training & Skilling” available on:

<https://ncvet.gov.in/sites/default/files/Guidelines%20for%20Blended%20Learning%20for%20Vocational%20Education,%20Training%20&%20Skilling.pdf>

S. No.	Select the Components of the Qualification	List Recommended Tools – for all Selected Components	Offline : Online Ratio
1	<input type="checkbox"/> Theory/ Lectures - Imparting theoretical and conceptual knowledge	Books/ e-books, Presentations, Reference Material , Audio / Video Modules with 2D and 3D animation Self-Learning Videos /Broadcasts /Mobile Learning /Curated Digital content	40:60
2	<input type="checkbox"/> Imparting Soft Skills, Life Skills, and Employability Skills /Mentorship to Learners	Self-Learning Videos , Broadcasts, Mobile Learning , Curated Digital content	40:60
3	<input type="checkbox"/> Showing Practical Demonstrations to the learners	Auto-CAD, STAAD.Pro, 3ds Max, Photoshop, Revit Softwares	100:0
4	<input type="checkbox"/> Imparting Practical Hands-on Skills/ Lab Work/ workshop/ shop floor training	Auto-CAD, STAAD.Pro, 3ds Max, Photoshop, Revit Softwares, Surveying Instruments like Auto Level, Total Station, GPS & DGPS	100:0
5	<input type="checkbox"/> Tutorials/ Assignments/ Drill/ Practice	Online Question Bank, Mobile Quick test app, MCQ based tests, Practical Test Softwares & Surveying Instruments	40:60
6	<input type="checkbox"/> Proctored Monitoring/ Assessment/ Evaluation/ Examinations	Assessment engine for Essays, Up-loadable file examinations, Mock test sessions	50:50
7	<input type="checkbox"/> On the Job Training (OJT)/ Project Work Internship/ Apprenticeship Training	Live Project on Structural Analysis & Design	100:0

### 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>NOS / Module:</b> <b>MSME/ADSDA/01</b> <b>Sketch Architectural drawings, section view,3D View.</b>	PC 1. Do exercises to develop drawing manually on drawing sheet. PC 2. Do unit conversation & make the plain scale, diagonal scale, Vernier scale, comparative scale and scale of chord. PC 3. Differentiate between 1 <sup>st</sup> angle& 3 <sup>rd</sup> angle projection. Draw orthographic views in 1 <sup>st</sup> and 3 <sup>rd</sup> angle projection method. PC 4. Identify different types of Stairs, Parts of stairs, Different sizes of doors and windows by using technical terms of door and window. PC 5. Identify the culverts, syphons, and bridges. Design PEB structure. PC 6. Calculate the coordinate system in manually & using by AutoCAD software. PC 7. Draw all the drawing & diagram by using software. PC 8. Make practice some command option, arc& TEXT option by using In all the drawing & diagram.	100	100	-	-

	<p>PC 9. Identify function &amp; use of Hatching, gradient, Layer in drawing or building plan.</p> <p>PC 10. Set the dimension, scale &amp; modify, increase /decrease the object by using scale factor and create the interior design in the building drawing.</p> <p>PC 11. Identify to make the steel structure manual in paper sheet &amp; also system. Calculating the steel property (volume, weight, density)</p> <p>PC 12. Set the 3D toolbar &amp; 3D views. Create 3D Drawing &amp; modeling in building plan by using modeling toolbar (extrude, subtract, union, press pull, sweep, loft, revolve, box or other option) &amp; modifying the 3D building model by using solid editing toolbar (Extrude face, move face, shell, color face, chamfer edge, fillet edge or other option).</p> <p>PC 13. Make spiral stair case &amp; details, Put material texture on spiral stair case &amp; building drawing. Insert block, W block, block &amp; create template with proper dimension and using scale in the drawing.</p> <p>PC 14. Draw Layout plan of column, foundation &amp; beam, Draw Detail drawing of R.C.C Beam, column, stair, slab, foundation, underground &amp; over head tank &amp; septic tank.</p> <p>PC 15. Create 2D plan of soak pit, septic tank by using 2D option AutoCAD software. Set the layout plan for plotting or printing &amp; transfer pdf. format. Create 2D plan &amp; 3D building model by using 2D &amp; 3D option in AutoCAD software.</p>				
<p><b>NOS / Module:</b></p> <p><b>MSME/ADSDA/02</b></p> <p><b>Analyze concrete &amp; steel structures, applying properties &amp; loads.</b></p> <p><b>Design exterior/interior, Render with 3Ds MAX &amp; Revit, create color/shadow in Photoshop</b></p>	<p>PC 1. Identify the materials as per their properties.</p> <p>PC 2. Analyze problem related to elastic constant.</p> <p>PC 3. Solve problem related to cantilever beam subjected by point load, UDL &amp; by both of them, solving problem related to simply supported beam subjected by point load, UDL &amp; by both point load &amp; UDL. Solving problem related to overhanging beam subjected by point load &amp; UDL. Finding out S.F.D &amp; B.M.D. in continuous beam.</p> <p>PC 4. Solve problem related to moment distribution method &amp; slope deflection method.</p> <p>PC 5. Review and analyze the civil core problems.</p> <p>PC 6. Calculate the coordinate system manually in paper &amp; using that coordinate points create frame structure &amp; steel structure in STAAD pro software.</p> <p>PC 7. Operate feeding of the co-ordinates in STAAD pro &amp; using tools like copy, paste, insert nodes, views, check dimension, rotate, text, change colors, and choose units with practice. Use auto cad software to transfer the file from auto cad to STAAD pro (using ID point system).</p> <p>PC 8. Prepare water tank by using translational repeat &amp; circular repeat &amp; filling the water tank with plates (concrete slab) Triangular, Quad and by using</p>	<p>100</p>	<p>100</p>	<p>-</p>	<p>100</p>

	<p>auto cad software (ID points system), manually calculate amount of water required, find out specification of water tank &amp; use grid system to form the transmission tower &amp; use different types of planes and circular repeat, Generate truss in STAAD pro by using translational repeat &amp; circular repeat make surface to cover the roof.</p> <p>PC 9. Use property option to define material over the structure, Define different shapes, Ex: - Circle, Rectangle, Tee, Trapezoidal. Use group option, Assign material over the structure, and define Angie, s-shape, channel, pipe section for steel structure. Manually find out structure, Dead &amp; Live loads Ex: - slab weight, wall weight, column weight, beam weight, live loads &amp; using I.S codes to calculate basic wind speed &amp; pressure, according to the different region by manually. Apply the calculated pressure in STAAD pro &amp; get wind directions, definition X+, X-, Z+, Z- load case detail Using IS code calculate basic shear during earthquake &amp; generate time period by manual calculation.</p> <p>PC 10. Generate concrete parameters to design column, beam &amp; slab by using IS 456 code. Use STAAD pro to get elaborated details of beam, column &amp; get working drawings from auto cad.</p> <p>PC 11. Use STAAD pro to define various types of beams such as, simple supported beam, fixed beam, cantilever beam, overhanging beam, continuous beam &amp; different types of supports.</p> <p>PC 12. Use STAAD pro to design steel structures Ex. tower, truss &amp; find out the eligible members. Use the surface panel models to design shear walls(RC wall)using lift room Including practice &amp; STAAD foundation to design, pile, mat, isolated, combined footings.</p> <p>PC 13. Work with object &amp; modifier, reactors with 3Ds max. Work with grids, Use snap tool, Move an object, Rotate an object, Mirror an object, Clone an object.</p> <p>PC 14. Create floor plan, elevation, Work with editable poly objects, Modify editable poly object. Make shapes by using spline &amp; Modify spline object using sub object.</p> <p>PC 15. Draw the drawing adding materials to object and refer libraries, Understand the multi/sub-object for the window &amp; doors, UVW map &amp; make the rendering.</p> <p>PC 16. Operate lighting &amp; different type of camera. Make scaling renderer &amp; mental ray/ renderer Use texture in 3d building by using 3ds max software.</p> <p>PC 17. Work with v-ray, Set v-ray, V-ray rendering &amp; animation in building. Work with free camera &amp; biped in drawing.</p> <p>PC 18. Provide texture on existing modern building by using Photoshop tools. Menus and panel, Open new files. Open existing files.</p>				
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	<p>PC 19. Create and view a new document Customizing the interface Setting preferences.</p> <p>PC 20. Sketch multiple images use by rulers' guides, &amp; grids, Adjust colors with the new adjustment panel.</p> <p>PC 21. Resize the images by pixels &amp; resolution using commands. Cut the images. Use tools for Color correction &amp; Effects (blur, noise etc).</p> <p>PC 22. Create a new project, Sketch element, Modify an element, Move an element, Rotate an element, Mirror an element, Delete an element, Work with project view.</p> <p>PC 23. Create levels, Work with level, elevation &amp; Floor plan.</p> <p>PC 24. Work with Basic wall, Curtain wall, Stacked wall. Add doors to a wall, Add window to a wall &amp; component.</p> <p>PC 25. Use align tools, Split tools Trim tools, Offset tools, Match type tools, Set color for wall. Understand section libraries, Create a floor, Modify floor, Create roof, Modify roof, Create ceiling, Modify ceiling, Cut open in.</p> <p>PC 26. Create different types of stairs using stair tool. Create ramp. Create railing.</p> <p>PC 27. Use of Model in-place elements. Work with different tool like extrude, blend, sweep, revolve, swept blend, void.</p> <p>PC 28. Identify Temporary dimension, Permanent dimension, modify dimension, Room &amp; area Analyze Area, Color fill skim, Camera views Work through.</p> <p>PC 29. Do the rendering work flow, Use light, Add plants &amp; entourage, Render &amp; image Understand the sectioning, floor plan, elevation, Work with sheets. Use title block, Print the drawing.</p> <p>PC 30. Import AutoCAD file in Revit software. Export Revit file to AutoCAD and 3Ds Max software.</p>				
<p><b>NOS / Module:</b></p> <p><b>MSME/ADSDA/03</b></p> <p><b>Use of building materials and their function and construction procedure</b></p>	<p>PC 1. Stones : Introduction, All Classification of Rocks, use of stone, quality of good stone, characteristics of stone, selection of stone in various work.</p> <p>PC 2. Bricks : Introduction, Composition, Dimensions confirming is-code-1077:1992,Classification,Unburnt or sun-dried bricks, Burnt bricks and types, Classification confirming is-code-1077:1992, Quality of good bricks, Special type of bricks, Introduction of brick test, Introduction to brick bonding confirming is-code-2212:1991.</p> <p>PC 3. Cement : Introduction, Ingredients&amp; Function, Type of cement &amp;advantages- disadvantages (i)ordinary Portland cement (OPC), Portland Pozzolana cement (PPC), acid resistance Cement, Coloured Cement: Blast Furnace Cement, Expanding cement, High Alumina Cement, Bogue's compound, Hydration of cement. Sand : Sources Of Sand-Pit, River, Sea Sand, Characteristics of sand, Bulking Of Sand, Grading Of Sand.</p> <p>PC 4. Coarse Aggregate : Introduction, Particle shape &amp; texture-rounded, irregular, flaky, angular IS-383-2016,</p>	<p>100</p>	<p>-</p>	<p>-</p>	<p>-</p>

	<p>PC 5. Mortar : Introduction, Ingredients &amp; Function, Properties of good mortar &amp; Uses: Types of Mortar on the bases of –Bulk density, Kinds of binding material, Nature of application, Precautions in using mortar.</p> <p>PC 6. Concrete : Introduction, Ingredients&amp; Function, Properties of different type concrete, Gradation of concrete, Preparation of concrete mix-hand mixing, machine mixing, Curing of concrete.</p> <p>PC 7. Timber : Introduction, Uses of timber: Classification of trees, Structure of tree: Defects in timber due to-conversion, fungi, natural forces, insects, characteristics of good timber.</p> <p>PC 8. Bitumen : Introduction, Flash and Fire point of bitumen, Introduction of all types of Bitumen -Penetration Grade Bitumen, Oxidized Bitumen Grades, Cut Back Bitumen, Bitumen Emulsion, Polymer Modified Bitumen.</p>				
<p><b>NOS / Module:</b></p> <p><b>MSME/ADSDA/04</b></p> <p><b>Intro to surveying, leveling, types, GPS/DGPS function &amp; uses.</b></p>	<p>PC 1. Do leveling &amp; surveying.</p> <p>PC 2. Perform different operations using auto level/digital level and calculate various parameters.</p> <p>PC 3. Perform rise and fall method, error correction &amp; do Fly leveling, profile leveling, simple leveling.</p> <p>PC 4. Performing by long section &amp; cross section method create road profile.</p> <p>PC 5. Do operational panel &amp; other plants of the instruments with the help of machine in field.</p> <p>PC 6. Do centering with the optical plummet eye piece as per procedure with the leaser plummet, do leveling of the circle level with the help of machine.</p> <p>PC 7. Do Job selection, Job Details, Job detection, Station orientation of points by help of machine</p> <p>PC 8. Shift the instrument from one station to another station &amp; Download Data.</p> <p>PC 9. Process data in computer, transfer format to CSV, DWG &amp; DXF with Specter link software.</p> <p>PC 10. After transferring process data, Create Topo map in AutoCAD software.</p> <p>PC 11. Identify main segments used for navigation &amp; Differentiate between the mobile GPS, GPS instrument, DGPS.</p> <p>PC 12. Measure the point to point distance using GPS device through satellite.</p> <p>PC 13. Measure the point to point distance using DGPS device through satellite.</p> <p>PC 14. Do the GPS work in survey. Solve the common errors of GPS survey &amp; Principles of GPS device.</p> <p>PC 15. Do the DGPS work in survey. Solve the common errors of DGPS survey &amp; Principles of DGPS device.</p> <p>PC 16. Find out coordinate of any point by Static Survey and creating topo map by PPK Survey/RTK Survey.</p>	<p>100</p>	<p>100</p>	<p>-</p>	<p>-</p>

<p><b>NOS / Module:</b></p> <p><b>MSME/ADSDA/05</b></p> <p><b>Estimation of building with rate analysis of civil works.</b></p>	<p>PC 1. Estimate, requirements for building design.</p> <p>PC 2. Calculate number of brick required for area, weight of brick, different brick densities required cost percentage of labor &amp; different cost percentage of material.</p> <p>PC 3. Calculate plinth rate &amp; cube rate.</p> <p>PC 4. Calculate Lime concrete, footings, plinth height, plinth wall and super structure wall.</p> <p>PC 5. Solve problem with long and short wall and centerline method.</p> <p>PC 6. Solve problem with ratio of cement, fine aggregate &amp; coarse aggregate. Fresh technical siltation rate of different material with volume calculation.</p>	<p>100</p>	<p>-</p>	<p>-</p>	<p>-</p>
<p><b>NOS / Module:</b></p> <p><b>MSME/ES&amp;E/02</b></p> <p><b>Employability Skills &amp; Entrepreneurship</b></p>	<p>PC 1. Explain occupational health and Safety.</p> <p>PC 2. Explain about safety rules.</p> <p>PC 3. State the name and location of people responsible for health and safety in the workplace.</p> <p>PC 4. Identify employability skills required for jobs in various industries. &amp; Identify and explore learning and employability portals</p> <p>PC 5. Recognize the significance of constitutional values, including civic rights and duties, citizenship, responsibility towards society etc. and personal values and ethics such as honesty, integrity, caring and respecting others, etc.</p> <p>PC 6. Follow environmentally sustainable practices.&amp; Recognize the significance of 21st Century Skills for employment</p> <p>PC 7. 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</p> <p>PC 8. Use basic English for everyday conversation in different contexts, in person and over the telephone.</p> <p>PC 9. How to Minimize the team conflicts &amp; Explain Ethics &amp; values.</p> <p>PC 10. Read and understand routine information, notes, instructions, mails, letters etc. written in English.</p> <p>PC 11. Write short messages, notes, letters, e-mails etc. in English &amp; Understand the difference between job and career.</p> <p>PC 12. Prepare a career development plan with short- and long-term goals, based on aptitude &amp; Discuss the main types of electronic funds transfers.</p> <p>PC 13. Follow verbal and non-verbal communication etiquette and active listening techniques in various settings &amp; work collaboratively with others in a team.</p> <p>PC 14. Communicate and behave appropriately with all genders and PwD &amp; escalate any issues related to sexual harassment at workplace according to POSH Act.</p>	<p>100</p>	<p>-</p>	<p>-</p>	<p>-</p>

	PC 15. Select financial institutions, products, and services as per requirement & carry out offline and online financial transactions, safely and securely. PC 16. Identify common components of salary and compute income, expenses, taxes, investments etc & identify relevant rights and laws and use legal aids to fight against legal exploitation. PC 17. Operate digital devices and carry out basic internet operations securely and safely & use e- mail and social media platforms and virtual collaboration tools to work effectively. PC 18. Use basic features of word processor, spreadsheets, and presentations. PC 19. Identify different types of Entrepreneurship and Enterprises and assess opportunities for potential business through research & develop a business plan and a work model, considering the 4Ps of Marketing Product, Price, Place and Promotion. PC 20. Identify sources of funding, anticipate, and mitigate any financial/ legal hurdles for the potential business opportunity. PC 21. Identify different types of customers & identify and respond to customer requests and needs in a professional manner. PC 22. Follow appropriate hygiene and grooming standards. PC 23. Create a professional Curriculum vitae (Résumé) & search for suitable jobs using reliable offline and online sources such as Employment exchange, recruitment agencies, newspapers etc. and job portals, respectively. PC 24. Apply to identified job openings using offline /online methods as per requirement & answer questions politely, with clarity and confidence, during recruitment and selection. PC 25. Identify apprenticeship opportunities and register for it as per guidelines and requirements.				
		<b>600</b>	<b>300</b>		<b>100</b>
<b>Grand Total</b>		<b>1000</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 MSME NSQF Assessment Agency via email for the assessment.
- MSME NSQF Assessment Agency sends the assessment confirmation to respective TC.
- MSME NSQF Assessment Agency deploys the certified Assessor for executing the assessment at respective TC via online / offline mode.

- MSME NSQF Assessment Agency & respective TC Internal Assessment cell monitors the assessment process & records.

**2. Testing Environment:**

- MSME NSQF Assessment Agency confirms the Assessment location, date and time
- For number of candidates more than 30 separate assessors are assigned for the assessment.
- MSME NSQF Assessment Agency & respective assessor confirms that the allotted time to the candidates to complete Theory & Practical Assessment is correct.

**3. Assessment Quality Assurance levels/Framework:**

- Each TC Submits the Question Bank for the individual subject Theory & Practice separately, submits to MSME NSQF Assessment Agency and it is verified by the MSME NSQF Assessment Agency Committee members.
- Questions are mapped to the specified assessment criteria
- All the assessors & Trainers are well qualified & trained to carry out the specified task.

**4. Types of evidence or evidence-gathering protocol:**

- Online Link is send by MSME NSQF Assessment Agency to respective TC & Assessor. Reporting of the assessor from assessment location is verified by the MSME NSQF Assessment Agency through the online Meeting Link. Students are also required to join for the online link for verification by the MSME NSQF Assessment Agency.
- Assessment Photographs are shared with the MSME NSQF Assessment Agency & are also with the respective TC.

**5. Method of verification or validation:**

- Online Link is send by MSME NSQF Assessment Agency to respective TC & Assessor. Reporting of the assessor from assessment location is verified by the MSME NSQF Assessment Agency through the online Meeting Link. Students are also required to join for the online link for verification by the MSME NSQF Assessment Agency.

**6. Method for assessment documentation, archiving, and access:**

- The Assessment records are shared with MSME NSQF Assessment Agency & also stored at respective TC.
- Assessor fills the assessment report and shares with the MSME NSQF Assessment Agency.

**On the Job Training:**

- Each module will be assessed separately.
- The candidate must score 60% marks to successfully complete the OJT.

- Learner will be assessed on the basis of OJT report followed by Viva
- Assessment will ensure that the Learner is able to:
  - ✓ Effective engagement with the customers / Subordinates and team
  - ✓ Understand the working of various tools and equipment
  - ✓ Understand the working environment of the industry

### 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 define 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 also 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 on the basis of 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>