



Basics of Solid Waste Management (Iron & Steel Industry)

☒ Public ☐ Private

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

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

NCrF/NSQF Level: 4

Submitted By:

Indian Iron and Steel Sector Skill Council (IISSC)

Karigari Bhawan, 5th Floor, Room No-509, Plot No-B/7,
Action Area-III, New Town, Rajarhat, Kolkata-700160

Table of Contents

Section 1: Basic Details 3

Section 2: Training Related 5

Section 3: Assessment Related 6

Section 4: Evidence of Need of the Nano Credential 7

Section 5: Annexure Check List 7

 Annexure: Evidence of Level 9

 Annexure: Learning Outcomes and Assessment Criteria 12

 Annexure: Assessment Strategy 13

 Annexure: Tools and Equipment 15

 Annexure: Industry Validations Summary 16

 Annexure: Training Details 17

 Annexure: Blended Learning 17

 Annexure: Acronym and Glossary 19

Section 1: Basic Details

1.	Nano Credential-Qualification Name	Basics of Solid Waste Management (Iron & Steel Industry)																			
2.	Sector/s	Iron & Steel																			
3.	National Qualification Register (NQR) Code & Version <i>(Will be issued after NSQC approval.)</i>	NC-04-IS-03800-2025-V1-IISSSC	4. NCrF/NSQF Level: 4																		
5.	Brief Description of the Nano Credential	This nano-credential provides a comprehensive understanding of waste management in the iron and steel industry, focusing on fundamental principles, advanced utilization techniques, and strategic implementation for achieving zero waste. Participants gain expertise in identifying and classifying waste types, applying solid waste recycling methods, utilizing by-products like slag and dust, and integrating sustainable practices such as Carbon Capture, Utilization, and Storage (CCUS). Additionally, the credential equips learners to develop and implement waste minimization strategies, optimize resource recovery, and contribute to eco-friendly steel production. This program prepares professionals for impactful roles in waste management and sustainability within the iron and steel sector.																			
6.	Eligibility Criteria for Entry for Students/Trainee/Learner/Employee	a. Entry Qualification & Relevant Experience <table><tr><th>S. No.</th><th>Academic/Skill Qualification (with Specialization - if applicable)</th><th>Required Experience (with Specialization - if applicable)</th></tr><tr><td>1</td><td>12th grade Pass (In science)</td><td>6 Months of experience In relevant field</td></tr><tr><td>2</td><td>11th Class (In science)</td><td>1.5 years of experience In relevant field</td></tr><tr><td>3</td><td>10th Class</td><td>3 Years of experience in relevant field</td></tr><tr><td>4</td><td>10th Class (2 years of NTC / NAC / CTS in Fitter, Machinist, Electrical)</td><td></td></tr><tr><td>5</td><td>Pursuing 2nd year of 3-year regular Diploma (in Metallurgy / Mechanical / Production / Electrical/ Chemical) (after 10th)</td><td></td></tr></table>		S. No.	Academic/Skill Qualification (with Specialization - if applicable)	Required Experience (with Specialization - if applicable)	1	12th grade Pass (In science)	6 Months of experience In relevant field	2	11th Class (In science)	1.5 years of experience In relevant field	3	10th Class	3 Years of experience in relevant field	4	10th Class (2 years of NTC / NAC / CTS in Fitter, Machinist, Electrical)		5	Pursuing 2nd year of 3-year regular Diploma (in Metallurgy / Mechanical / Production / Electrical/ Chemical) (after 10th)	
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3	10th Class	3 Years of experience in relevant field																			
4	10th Class (2 years of NTC / NAC / CTS in Fitter, Machinist, Electrical)																				
5	Pursuing 2nd year of 3-year regular Diploma (in Metallurgy / Mechanical / Production / Electrical/ Chemical) (after 10th)																				

		b. Age: 18													
7.	Credits Assigned to this Qualification, Subject to Assessment <i>(as per National Credit Framework (NCrF))</i>		8. Common Cost Norm Category (I/II/III) <i>(wherever applicable):</i> I												
9.	Any Licensing Requirements/ Pre-requisites for Undertaking Training <i>(wherever applicable)</i>	No Licensing													
10.	Expected Outcomes of the Nano Credential	Terminal learning outcomes are: - Identify and describe various types of wastes generated in steel production, including solid, liquid, and gaseous wastes, and classify them according to their recyclability. - Assess the understanding of the 4R principles (Reduce, Reuse, Recycle, and Restore) and how they are applied in achieving zero-waste operations within the steel industry. - Analyze and explain the environmental and economic consequences of improper waste management practices in steel plants. - Assess the practical skills in analyzing real samples of steel plant waste (such as slag, dust, and GCP sludge), and classify them by type and potential for recycling or reuse. - Identify common solid wastes (e.g., slag, dust, sludge) and explain their characteristics, including potential uses and challenges in their management. - Describe how specific wastes, such as slag, are repurposed in road construction, fertilizer production, and other industrial applications, and their environmental benefits. - Assess comprehension of the zero-waste vision for steelmaking, its importance, and how the vision contributes to creating cleaner, greener steel production.													
11.	Training Duration by Modes of Training Delivery <i>(Specify Total Duration as per selected training delivery modes and as per requirement of the qualification)</i>	☒ Offline Only ☐ Online Only ☐ Blended <table border="1"> <thead> <tr> <th>Training Delivery Mode</th><th>Theory (Hours)</th><th>Practical (Hours)</th><th>Total (Hours)</th></tr> </thead> <tbody> <tr> <td>Classroom (offline)</td><td>04:00</td><td>01:00</td><td>05:00</td></tr> <tr> <td>Online</td><td>0</td><td>0</td><td>0</td></tr> </tbody> </table> <i>(Refer Blended Learning Annexure for Details)</i>		Training Delivery Mode	Theory (Hours)	Practical (Hours)	Total (Hours)	Classroom (offline)	04:00	01:00	05:00	Online	0	0	0
Training Delivery Mode	Theory (Hours)	Practical (Hours)	Total (Hours)												
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Online	0	0	0												

12.	Assessment Criteria	<table><tr><th>Theory (Marks)</th><th>Practical (Marks)</th><th>Project (Marks)</th><th>Viva (Marks)</th><th>Total (Marks)</th><th>Passing %age</th></tr><tr><td>40</td><td>60</td><td>0</td><td>0</td><td>100</td><td>70</td></tr></table>	Theory (Marks)	Practical (Marks)	Project (Marks)	Viva (Marks)	Total (Marks)	Passing %age	40	60	0	0	100	70
Theory (Marks)	Practical (Marks)	Project (Marks)	Viva (Marks)	Total (Marks)	Passing %age									
40	60	0	0	100	70									
13.	Is the Qualification Amenable to Persons with Disability	☒ Yes ☐ No If “Yes”, specify applicable type of Disability: Partial hearing disability Candidate should be able to communicate properly with/without aids.												
14.	How participation of women will be encouraged?	Equal employment opportunity is being given in the industry.												
15.	Other Indian Languages in which the Nano Credential will be implemented.	English only and Vernacular language												
16.	Is similar Nano Credential Qualification(s) available on NQR-if yes, justification for this qualification	☐ Yes ☒ No URLs of similar Qualifications:												
17.	Name and Contact Details Submitting / Awarding Body SPOC	Name: Mr. Sushim Banerjee Email: ceo@iissc.org/ sushim_banerjee@yahoo.com Contact No.: 033-23247559 Website: https://www.iissc.org/												
18.	Final Approval Date by NSQC: 18/02/2025	<table><tr><td>19. Validity Duration: 3 Years</td><td>20. Next Review Date: 18/02/2028</td></tr></table>	19. Validity Duration: 3 Years	20. Next Review Date: 18/02/2028										
19. Validity Duration: 3 Years	20. Next Review Date: 18/02/2028													

Section 2: Training Related

1.	Trainer’s Qualification and experience in relevant sector (in years) (as per requirement and NCVET guidelines)	ITI (Mechanical Engineering) in the relevant discipline with minimum 3 years of experience in their professional field and 2 years of training experience in Industrial Waste Management. Or Diploma (Mechanical Engineering) in the relevant discipline with minimum 2 years of experience in their professional fields and 2 years of training experience in Industrial Waste Management. Or
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		BE/BTECH with minimum 3 years of experience in their professional fields and 2 years of training experience in Industrial Waste Management.
2.	Master Trainer's Qualification and experience in relevant sector (in years) <i>(as per requirement and NCVET guidelines)</i>	ITI (Mechanical Engineering) in the relevant discipline with minimum 6 years of experience in their professional field and 4 years of training experience in Industrial Waste Management. Or Diploma (Mechanical Engineering) in the relevant discipline with minimum 5 years of experience in their professional fields and 4 years of training experience in Industrial Waste Management. Or BE/BTECH with minimum 4 years of experience in their professional fields and 3 years of training experience in Industrial Waste Management.
3.	Tools and Equipment Required for Training	☒ Yes ☐ No <i>(If "Yes", details to be provided in Annexure)</i>

Section 3: Assessment Related

1.	Assessor's Qualification and experience in relevant sector (in years) <i>(as per requirement and NCVET guidelines)</i>	ITI (Mechanical Engineering) in the relevant discipline with minimum 3 years of experience in their professional field and 2 years of assessment experience in Industrial Waste Management. Or Diploma (Mechanical Engineering) in the relevant discipline with minimum 2 years of experience in their professional fields and 2 years of assessment experience in Industrial Waste Management. Or BE/BTECH with 1 years of experience in their professional fields and 2 years of assessment experience in Industrial Waste Management.
2.	Proctor's Qualification and experience in relevant sector (in years) <i>(as per requirement and NCVET guidelines)</i>	BE/BTECH with minimum 4 years of experience in their professional fields and 2 years of assessment experience in Industrial Waste Management.

3.	Lead Assessor's/Proctor's Qualification and experience in relevant sector (in years) <i>(as per requirement and NCVET guidelines)</i>	ITI (Mechanical Engineering) in the relevant discipline with minimum 7 years of experience in their professional field and 5 years of assessment experience in Industrial Waste Management. Or Diploma (Mechanical Engineering) in the relevant discipline with minimum 6 years of experience in their professional fields and 5 years of assessment experience in Industrial Waste Management. Or BE/BTECH with minimum 6 years of experience in their professional fields and 5 years of assessment experience in Industrial Waste Management.
4.	Assessment Mode <i>(Specify the assessment mode)</i>	Mode: ☐ Online Only ☒ Offline Only ☐ Blended
5.	Tools and Equipment Required for Assessment	☒ Same as for training ☐ Yes ☐ No <i>(details to be provided in Annexure-if it is different for Assessment)</i>

Section 4: Evidence of Need of the Nano Credential

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

1.	Government /Industry initiatives/ requirement (Yes/No): Yes
2.	Number of Industry validation provided: <i>< Specify both Annexure & Supporting document details for Industry validation summary & Industry validations (as per format)> 5</i>
3.	Estimated number of people to be trained: <i><Specify details in annexure> 500</i>

Section 5: Annexure Check List

Specify Annexure Number and Name.

1.	Annexure: NCrF/NSQF level justification based on NCrF Level/NSQF descriptors (<i>Mandatory</i>)	Attached
2.	Annexure: Learning Outcomes and Assessment Criteria (<i>Mandatory</i>)	Attached
3.	Annexure: Assessment Strategy (<i>Mandatory</i>)	Attached
4.	Annexure: List of tools and equipment relevant for qualification (<i>Mandatory – Except in case of online course</i>)	Attached
5.	Annexure: Blended Learning (<i>Mandatory in case selected mode of delivery is “Blended Learning”</i>)	Attached
6.	Annexure: Acronym and Glossary (<i>Optional</i>)	Attached

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Annexure: Evidence of Level

NCrF/NSQF Level Descriptors	Key requirements of the job role/ outcome of the qualification	How the job role/ outcomes relate to the NCrF/NSQF level descriptor	NCrF/NSQF Level
Professional Theoretical Knowledge/Process	- Understanding of waste types and their generation points in steel production, including solid, liquid, and gaseous wastes. - Proficiency in the 4R principles (Reduce, Reuse, Recycle, Restore) for sustainable waste management. - In-depth knowledge of solid waste recycling techniques, such as slag atomization, briquetting, and reuse in construction or soil conditioning. - Understanding of waste hierarchy and strategic approaches for minimizing waste generation. - Knowledge of innovative technologies like Carbon Capture, Utilization, and Storage (CCUS) and dry slag granulation. - Proficiency in the classification of steel plant wastes based on properties and recyclability. - Comprehensive understanding of environmental and economic impacts of improper waste management. - Expertise in safety and regulatory compliance in waste handling and disposal procedures.	At NSQF Level 4, professional theoretical knowledge for the job role "Waste Management in Iron and Steel Sector" includes a solid understanding of waste types, recycling techniques, and environmental regulations. Workers analyze waste streams, apply sustainable practices like CCUS, and optimize resource recovery. They demonstrate problem-solving skills and the ability to implement strategic waste management plans, aligning with Level 4 descriptors for skilled tasks and technical comprehension in industrial sustainability.	4

	- Ability to analyze and implement waste management strategies for achieving zero-waste steelmaking. - Understanding of resource recovery techniques and their integration into steel production processes.		
Professional and Technical Skills/ Expertise/ Professional Knowledge	- Proficiency in waste classification and identification, including solid, liquid, and gaseous wastes generated in steel plants. - Advanced understanding of the 4R principles (Reduce, Reuse, Recycle, and Restore) and their application in waste management strategies. - Expertise in solid waste recycling techniques, including slag utilization for road construction, fertilizer production, and briquetting. - Skill in handling and managing steel plant by-products, such as mill scale, dust, sludge, and refractory materials, for reuse or sale.	At NSQF Level 4, professionals in Waste Management in the Iron and Steel Sector demonstrate technical skills in waste segregation, recycling, and reuse. They possess expertise in managing solid waste like slag and dust, implementing 4R principles, and utilizing advanced techniques like briquetting and dry slag granulation. Their professional knowledge enables them to optimize waste management processes, contribute to sustainability, and perform skilled tasks, aligning with Level 4 descriptors for practical problem-solving and resource management.	4
Employment Readiness & Entrepreneurship Skills & Mind-set/Professional Skill	- Strong analytical skills to identify and classify various types of waste generated in steel plants and assess their recyclability. - Effective communication skills for collaborating with cross-functional teams to implement waste management strategies. - Attention to detail to ensure accurate monitoring and segregation of waste materials for appropriate recycling and disposal.	At NSQF Level 4, Employment Readiness & Entrepreneurship skills for "Waste Management in Iron and Steel Sector" professionals focus on developing a proactive mindset and adaptability to industry needs. Individuals build problem-solving, teamwork, and communication skills essential for managing waste processes. They foster an entrepreneurial outlook, enabling innovative solutions for waste utilization and sustainability, preparing them to contribute effectively to	4

	- Ability to work under pressure in dynamic industrial environments while maintaining adherence to environmental and safety standards. - Basic technical proficiency to understand and operate equipment used in waste processing and recycling.	environmental and operational efficiency in steel production.	
Broad Learning Outcomes/Core Skill	- Mastery of solid waste utilization techniques, including slag recycling, briquetting, and micro-pellet production for industrial applications. - Expertise in implementing waste segregation, collection, and transportation procedures for efficient management and compliance with environmental standards. - Skill in analyzing and assessing waste samples, such as slag, dust, and sludge, to determine recyclability and resource recovery potential. - Competence in utilizing advanced technologies like dry slag granulation and CCUS to enhance resource recovery and reduce environmental impact.	At NSQF Level 4, Waste Management professionals in the Iron and Steel Sector develop core skills in identifying, managing, and recycling various types of industrial waste. They demonstrate proficiency in implementing waste minimization techniques, utilizing by-products, and applying sustainable practices like CCUS. These professionals ensure compliance with environmental regulations, optimize resource recovery, and contribute to achieving zero waste in steel production, preparing them for roles that require both technical expertise and environmental stewardship.	4
Responsibility	- Identify and classify different types of waste (solid, liquid, gaseous) generated in iron and steel production. - Assist in the implementation of waste segregation and recycling practices within the plant.	At NSQF Level 4, professionals in Waste Management in the Iron and Steel Sector are entrusted with managing and optimizing waste handling processes. They demonstrate expertise in identifying waste types, implementing recycling techniques, and applying sustainability practices. Job outcomes align with Level 4 descriptors, requiring effective problem-solving, resource management, and adherence to	4

• Monitor and report on waste handling, storage, and transportation processes. • Operate basic equipment used for waste recycling, such as briquetting machines and granulators, under supervision. • Communicate effectively with team members and supervisors about waste management tasks and concerns. • Ensure compliance with environmental and safety regulations during waste management operations. • Perform basic maintenance of waste handling tools and equipment.	safety protocols to ensure eco-friendly practices, minimize waste, and enhance overall steel production efficiency.
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Annexure: Learning Outcomes and Assessment Criteria

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

S. No.	Learning Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
PC 1.	Recognize and categorize the different types of waste generated during iron and steel production, including solid, liquid, and gaseous wastes, by evaluating plant processes.	4	6	0	0
PC 2.	Assess solid waste materials (e.g., slag, dust, sludge) for their properties, recyclability, and potential for reuse.	4	6	0	0
PC 3.	Apply the principles of Reduce, Reuse, Recycle, and Restore (4Rs) to all stages of waste management.	4	6	0	0

PC 4.	Integrate advanced technologies, such as carbon capture or automated waste processing systems, to reduce the environmental impact and improve the efficiency of waste management processes.	4	6	0	0
PC 5.	Evaluate the potential environmental and economic consequences of improper waste management and recommend corrective actions to mitigate adverse impacts.	4	6	0	0
PC 6.	Efficiently segregate different types of waste at the source, ensuring that recyclable and non-recyclable materials are separated for proper processing.	4	6	0	0
PC 7.	Explore and apply methods for reusing slag in road construction, soil conditioning, fertilizer production, and other industrial applications to reduce waste disposal.	4	6	0	0
PC 8.	Work with mill scale, dust, and sludge to convert these by-products into valuable materials such as briquettes and micro-pellets, optimizing their utility in steel production.	4	6	0	0
PC 9.	Review and optimize raw material selection and processing techniques to minimize waste generation and improve overall process efficiency.	4	6	0	0
PC 10.	Adhere to strict safety protocols and environmental guidelines during all waste management activities to protect workers.	4	6	0	0
Total Marks		40	60	0	0

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 assigned to the assessment agencies for conducting the assessment on SDMS/SIP or email
- Assessment agencies send the assessment confirmation to VTP/TC looping SSC
- Assessment agency deploys the ToA certified Assessor for executing the assessment
- SSC monitors the assessment process & records

2. Testing Environment:

- Confirm that the centre is available at the same address as mentioned on SDMS or SIP
- Check the duration of the training.
- Check the Assessment Start and End time to be as 10 a.m. and 5 p.m.
- Metal casting the batch size is more than 30, and then there should be 2 Assessors.
- Check that the allotted time to the candidates to complete Theory & Practical Assessment is correct.
- Check the mode of assessment—Online (TAB/Computer) or Offline (OMR/PP).
- Confirm the numbers of TABs on the ground are correct to execute the Assessment smoothly.
- Check the availability of the Lab Equipment for the particular Job Role.

3. Assessment Quality Assurance levels / Framework:

- Question papers created by the Subject Matter Experts (SME)
- Question papers created by the SME verified by the other subject Matter Experts
- Questions are mapped with NOS and PC
- Question papers are prepared considering that level 1 to 3 is for the unskilled & semi-skilled individuals, and level 4 and above are for the skilled, supervisor & higher management
- Assessor must be ToA certified & trainer must be ToT Certified
- Assessment agency must follow the assessment guidelines to conduct the assessment

4. Types of evidence or evidence-gathering protocol:

- Time-stamped & geotagged reporting of the assessor from assessment location
- Centre photographs with signboards and scheme specific branding
- Biometric or manual attendance sheet (stamped by TP) of the trainees during the training period
- Time-stamped & geotagged assessment (Theory + Viva + Practical) photographs & videos

5. Method of verification or validation:

- Surprise visit to the assessment location

- Random audit of the batch
- Random audit of any candidate

6. Method for assessment documentation, archiving, and access

- Hard copies of the documents are stored
- Soft copies of the documents & photographs of the assessment are uploaded / accessed from Cloud Storage
- Soft copies of the documents & photographs of the assessment are stored in the Hard Drives

Annexure: Tools and Equipment

List of Tools and Equipment

Batch Size: 30

S. No.	Tool / Equipment Name	Specification	Quantity for specified Batch size
1.	Trainer Guide	As per requirement	1
2.	Presentations	All	1
3.	Video Films	As per requirement	1
4.	Safety gloves	As per requirement	1
5.	Goggles	As per requirement	1
6.	Laboratory coats	As per requirement	1
7.	Dust masks	As per requirement	1
8.	Safety shoes	As per requirement	1
9.	Tongs	As per requirement	1

10.	Sample containers (e.g., steel bins, plastic trays)	As per requirement	1
11.	Weighing scales	As per requirement	1
12.	Real samples of steel plant waste (slag, dust, GCP sludge, etc.)	As per requirement	1
13.	Briquetting Machine	As per requirement	1
14.	Blender	As per requirement	1
15.	Containers for slag and dust storing	As per requirement	1
16.	Weighing Scale	As per requirement	1

Classroom Aids:

The aids required to conduct sessions in the classroom are:

1. Whiteboard and marker
2. Projector
3. Laptop
4. Internet

Annexure: Industry Validations Summary

S. No	Organization Name	Representative Name	Designation	Contact Address	Contact Phone No	E-mail ID	LinkedIn Profile (if available)
1	Bokaro Steel Plant	B.K Singh	GM		8986871504	Basant.singh@sail.in	

2	Thinkway Industries Pvt Ltd.	Mrs. Swati Kumar	Director	Flat No. 33, Block-B, Pocket-C, Loknayak Puram, DDA Flat Nangloi, Delhi-110041	9999751120	operations.zita@gmail.com	
3	Bhalotia Auto Products Pvt. Ltd.	Kanchan Patra	AGM	H.O Muneshwari Bhawan, Jamshedpur - 831001	9830019700		
4	Rourkela Steel Plant	H. Pati	GM	Rourkela - 769011	8895500593		
5	ESL Steel Limited	G L Karna	Head – L&D	Siyalijori, P.O – Jogidih, O.P – Bangaria, P.S – Chandankyari, Bokaro Pin – 828303	9004974233	Govindlal.karna@vadanta.co.in	

Annexure: Training Details

Training Projections:

Year	Estimated Training # of Total Candidates	Estimated training # of Women	Estimated training # of People with Disability
2024-25	500	200	50
2025-26	1000	400	100
2026-27	1500	600	150

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

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	☒ Theory/ Lectures - Imparting theoretical and conceptual knowledge	• Books/ e-books • Presentations • Reference Material • Audio / Video Modules	
2	☒ Imparting Soft Skills, Life Skills and Employability Skills /Mentorship to Learners	• Self-Learning Videos • Broadcasts • Mobile Learning • Curated Digital content	
3	☒ Showing Practical Demonstrations to the learners	• Video Content • E-Resource library • AR/VR/XR	
4	☒ Imparting Practical Hands-on Skills/ Lab Work/ workshop/ shop floor training	• Training tools (tools list attached) • Video Play • Presentations	
5	☒ Tutorials/ Assignments/ Drill/ Practice	• Online Question Bank • Mobile Quick test app • MCQ based tests	
6	☒ Proctored Monitoring/ Assessment/ Evaluation/ Examinations	• Assessment engine for Essays	

		• Up-loadable file examinations • Mock test sessions	
7	☒ On the Job Training (OJT)/ Project Work Internship	• Online tests • Offline assessments	

Annexure: Acronym and Glossary

Acronym

Acronym	Description
AA	Assessment Agency
AB	Awarding Body
ISCO	International Standard Classification of Occupations
NCO	National Classification of Occupations
NCrF	National Credit Framework
NQR	National Qualification Register
NSQF	National Skills Qualifications Framework
OJT	On the Job Training
CAD/CAM	Computer-aided design and computer-aided manufacturing
CAE	Computer-aided engineering

Glossary

Term	Description
Qualification	A formal outcome of an assessment and validation process which is obtained when a competent body determines that an individual has achieved learning outcomes to given standards
Qualification File	A Qualification File is a template designed to capture necessary information of a Qualification from the perspective of NSQF compliance. The Qualification File will be normally submitted by the awarding body for the qualification.
Sector	A grouping of professional activities based on their main economic function, product, service or technology.

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