



कौशल विकास और
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MINISTRY OF
SKILL DEVELOPMENT
AND ENTREPRENEURSHIP



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Model Curriculum

QP Name: 7D BIM Creator - BIM & IoT Integration

QP Code: CON/Q2104

Version: 1.0

NSQF Level: 6.0

Model Curriculum Version: 1.0

Construction Skill Development Council of India || Tower 4B, DLF Corporate Park, 201&, 202 4B,
Mehrauli-Gurgaon Rd, DLF Phase 3, Gurugram, Haryana 122002



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Table of Contents

Training Parameters.....	3
Program Overview	5
Training Outcomes.....	5
Compulsory Modules.....	5
Module 1: Introduction to the role of a 7D BIM Creator - BIM & IoT Integration.....	7
Module 2: Process of integrating IoT with 7D BIM operations.....	8
Module 3: Process of performing facility and asset management using 7D BIM.....	10
Module 4: Managing Health and Safety at the Workplace	12
Module 5: Employability Skills	14
Module 6: On-the-Job Training.....	17
Annexure.....	18
Trainer Requirements	18
Assessor Requirements.....	19
Assessment Strategy.....	20
Acronyms and Abbreviations.....	22



कौशल विकास और
उद्यमशीलता मंत्रालय
MINISTRY OF
SKILL DEVELOPMENT
AND ENTREPRENEURSHIP



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Training Parameters

Sector	Construction
Sub-Sector	Real Estate and Infrastructure Construction
Occupation	Building Information Modeling (BIM)
Country	India
NSQF Level	6.0
Aligned to NCO/ISCO/ISIC Code	NCO-2015/2142.9900
Minimum Educational Qualification and Experience	<p>Pursuing first year of 2-year PG program after completing 3-year UG degree</p> <p>OR</p> <p>Completed 4-year UG (in case of 4-year UG with honours/ honours with research)</p> <p>OR</p> <p>Completed 3-Year UG Degree with 1-year relevant experience</p> <p>OR</p> <p>Completed 2 year of diploma after 12th with 2-year relevant experience</p> <p>OR</p> <p>Previous relevant Qualification of NSQF Level 5.5 with 1.5-year relevant experience</p> <p>OR</p> <p>Previous relevant Qualification of NSQF Level 5 with 3-year relevant experience</p>
Pre-Requisite License or Training	NA
Minimum Job Entry Age	21 Years
Last Reviewed On	31/08/2023
Next Review Date	31/08/2026
NSQC Approval Date	31/08/2023
QP Version	1.0



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MINISTRY OF
SKILL DEVELOPMENT
AND ENTREPRENEURSHIP



Model Curriculum Creation Date	31/08/2023
Model Curriculum Valid Up to Date	31/08/2026
Model Curriculum Version	1.0
Minimum Duration of the Course	600 Hours
Maximum Duration of the Course	600 Hours



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उद्यमशीलता मंत्रालय
MINISTRY OF
SKILL DEVELOPMENT
AND ENTREPRENEURSHIP



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Program Overview

This section summarizes the end objectives of the program along with its duration.

Training Outcomes

At the end of the program, the learner should have acquired the listed knowledge and skills to:

- Describe the process of integrating IoT with 7D BIM operations.
- Describe the process of performing facility and asset management using 7D BIM.
- Elucidate ways to manage workplace for safe and healthy work environment.

Compulsory Modules

The table lists the modules and their duration corresponding to the Compulsory NOS of the QP.

NOS and Module Details	Theory Duration	Practical Duration	On-the-Job Training Duration (Mandatory)	On-the-Job Training Duration (Recommended)	Total Duration
CON/N2108: Integrate IoT with 7D BIM operations NOS Version- 1.0 NSQF Level- 6.0	55:00	95:00	90:00	00:00	240:00
Module 1: Introduction to the role of a 7D BIM Creator - BIM & IoT Integration	05:00	0:00	0:00	00:00	05:00
Module 2: Process of integrating IoT with 7D BIM operations	50:00	95:00	90:00	00:00	235:00
CON/N2109: Perform facility and asset management using 7D BIM NOS Version- 1.0 NSQF Level- 6.0	80:00	100:00	60:00	00:00	240:00
Module 3: Process of performing facility and asset management using 7D BIM	80:00	100:00	60:00	00:00	240:00
CON/N9003: Manage health and safety at the workplace NOS Version No. 1.0 NSQF Level -5	15:00	15:00	0:00	00:00	30:00
Module 4: Managing Health and Safety at the Workplace	15:00	15:00	0:00	00:00	30:00



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उद्यमशीलता मंत्रालय
MINISTRY OF
SKILL DEVELOPMENT
AND ENTREPRENEURSHIP



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DGT/VSQ/N0103: Employability Skills NOS Version- 1.0 NSQF Level- 5	90:00	00:00	0:00	00:00	90:00
Module 5: Employability Skills	90:00	00:00	0:00	00:00	90:00
Total Duration	240:00	210:00	150:00	00:00	600:00



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उद्यमशीलता मंत्रालय
MINISTRY OF
SKILL DEVELOPMENT
AND ENTREPRENEURSHIP



Module Details

Module 1: Introduction to the role of a 7D BIM Creator - BIM & IoT Integration

Mapped to CON/N2108, v1.0

Terminal Outcomes:

- Discuss the job role of a 7D BIM Creator - BIM & IoT Integration.

Duration: 05:00	Duration: 0:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none">• Describe the size and scope of the construction industry and its sub-sectors.• Discuss the role and responsibilities of a 7D BIM Creator - BIM & IoT Integration.• Identify various employment opportunities for a 7D BIM Creator - BIM & IoT Integration.	
Classroom Aids	
Training Kit - Trainer Guide, Presentations, Whiteboard, Marker, Projector, Laptop, Video Films	
Tools, Equipment and Other Requirements	
NA	



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उद्यमशीलता मंत्रालय
MINISTRY OF
SKILL DEVELOPMENT
AND ENTREPRENEURSHIP



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कौशल भारत - कुशल भारत



Module 2: Process of Integrating IoT with 7D BIM Operations

Mapped to CON/N2108, v1.0

Terminal Outcomes:

- Describe the process of setting up IoT sensors and devices.
- Elucidate ways to capture and analyze data.

Duration: 50:00	Duration: 95:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • Explain BIM and how they apply to the design and construction industry. • Explain the objectives of 7D BIM - operations and facility management. • Explain the benefit of using BIM for Facility Management (FM). • Describe Project Lifecycle Phases (PLPs) in FM. • Explain the importance of using a scalable and configurable BIM management system. • Explain the use of IoT software applications for process control, gathering of real-time data from remote locations to control equipment and conditions. • Explain the benefits of integrating the BIM with the IoT technology for facility management. 	<ul style="list-style-type: none"> • Demonstrate the process of performing the appropriate testing to ensure the correct functioning of IoT-based sensors and devices. • Show how to integrate the IoT-based monitoring system with 7D BIM for efficient and real-time monitoring of the facility, e.g. events and physical changes. • Show how to create and implement the appropriate BIM IoT workflow, utilizing web-connected devices to supervise and control data exchanges directly from the digital BIM model. • Demonstrate how to measure temperature and humidity levels, light intensity, movements or any other types of mechanical or physical information with the help of IoT devices and sensors. • Demonstrate the use of the appropriate IoT-based solutions to reduce the maintenance and energy costs in the facility, e.g. smart lighting system. • Show how to use cloud computing to store and utilize the large-scale data generated by IoT devices, with the increased data security and ease of accessing it. • Demonstrate how to analyze the data captured by IoT-based sensors and devices and take appropriate decisions concerning facility management.



कौशल विकास और
उद्यमशीलता मंत्रालय
MINISTRY OF
SKILL DEVELOPMENT
AND ENTREPRENEURSHIP



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Classroom Aids

Training Kit (Trainer Guide, Presentations). Whiteboard, Marker, Projector, Laptop

Tools, Equipment and Other Requirements

Revit, AutoCAD, Navisworks, Desktop



कौशल विकास और
उद्यमशीलता मंत्रालय
MINISTRY OF
SKILL DEVELOPMENT
AND ENTREPRENEURSHIP



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Module 3: Process of Performing Facility and Asset Management using 7D BIM

Mapped to CON/N2109, v1.0

Terminal Outcomes:

- Elucidate ways to monitor and manage the facility and assets.
- Describe the process of performing post-occupancy evaluations.
- Explain the process of performing space and safety management.
- Elucidate ways to support in retrofitting and renovations.
- Describe the process of carrying out reporting.

Duration: 80:00	Duration: 100:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • Describe Asset Information Modeling (AIM) and Project Information Modeling (PIM). • State Organizational Information Requirements (OIR), Asset Information Requirements (AIR) and Exchange Information Requirements (EIR). • Explain the planning and management of maintenance operations throughout a building's lifecycle. • Discuss the lifecycle BIM strategies. • Explain the BIM embedded Operations and Maintenance (O&M) manuals. • Explain the Construction Operations Building Information Exchange (COBie) data population and extraction. • Explain the BIM maintenance plans. • Describe the Level of Development (LOD) 400 and 500. • Explain how to create and manage metadata for building elements. • Describe the methods of creation, evaluation, and exchange of BIM. • Elucidate how to leverage BIM and 7D modeling for construction 	<ul style="list-style-type: none"> • Demonstrate how to create a dynamic model of the facility using BIM to be utilized throughout the facility's lifecycle. • Demonstrate how to conduct Post-Occupancy Evaluations (POE) to evaluate the built environment of the facility. • Demonstrate the use of Augmented Reality (AR) while conducting POE to get an accurate impression of resident interventions to assist in the adjustment of future developments. • Demonstrate the use of BIM data for conducting feasibility studies. • Show how to develop context-specific and relational data by processing the collected data. • Show how to export BIM data to external databases for use with the relevant asset management systems. • Demonstrate how to create reports of metadata of the building model to assist with facilities management. • Demonstrate the process of using the reporting dashboard to collect the relevant data and prepare reports.



कौशल विकास और
उद्यमशीलता मंत्रालय
MINISTRY OF
**SKILL DEVELOPMENT
AND ENTREPRENEURSHIP**



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optimization and sustainable building initiatives.

- Describe Programming - Using a spatial program to efficiently and accurately assess a design's performance and effectiveness relative to the spatial requirements.
- Describe record modeling - creating an accurate depiction of the physical conditions, environment, and assets of a facility.
- State preventative maintenance scheduling - tracking and maintaining lifecycle information about the building structure as well as the equipment, planning and scheduling a program of maintenance activities that will improve building performance, reduce repairs, and reduce overall maintenance costs.
- Describe asset management - linking data in a BIM record model to a database of building assets to assist in efficiently maintaining and operating the facility.
- Describe space management and tracking - allocating, managing, and tracking spaces and related resources within a facility.
- Explain the collaborative use of BIM information in making design and construction decisions, with a facilities/operations management framework.

Classroom Aids

Training Kit (Trainer Guide, Presentations). Whiteboard, Marker, Projector, Laptop

Tools, Equipment and Other Requirements

Revit, AutoCAD, Navisworks, Desktop



कौशल विकास और
उद्यमशीलता मंत्रालय
MINISTRY OF
SKILL DEVELOPMENT
AND ENTREPRENEURSHIP



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Module 4: Managing Health and Safety at the Workplace

Mapped to CON/N9003, v1.0

Terminal Outcomes:

- Explain the importance of ensuring health and safety at the workplace.
- Discuss how to manage workplace emergencies.
- Demonstrate the use of Personal Protective Equipment (PPE).

Duration: 15:00	Duration: 15:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • Explain the importance of health and safety at work. • Discuss the regulations relevant to health and safety at work. • Explain the selection of appropriate PPE according to the nature of work. • Discuss the importance of regular cleaning and sanitization at work. • Explain the importance of regular workplace safety audits. • Discuss the common health and safety hazards at the workplace and the appropriate preventive measures. • Discuss the benefits of providing comprehensive training to personnel on emergency procedures. • Explain the importance of the availability of an updated first-aid kit and functioning emergency equipment at work. • Discuss the appropriate measures to be taken during different workplace emergencies. • Explain the documentation and reporting requirements concerning workplace emergencies. 	<ul style="list-style-type: none"> • Demonstrate how to use the appropriate PPE according to the nature of work. • Demonstrate the use of relevant emergency equipment, e.g. use of fire extinguishers to extinguish different types of fire. • Demonstrate how to provide first aid for different types of injuries or medical emergencies.
Classroom Aids:	
Training Kit - Trainer Guide, Projector/LED Monitor, Computer/ Laptop, Presentations, Black/ Whiteboard, Marker, Projector, Video	
Tools, Equipment, and Other Requirements	



कौशल विकास और
उद्यमशीलता मंत्रालय
MINISTRY OF
SKILL DEVELOPMENT
AND ENTREPRENEURSHIP



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Safety Gloves, Face Mask, Soap/ Hand Sanitizer, Safety goggles, Fire Extinguishers, Sand buckets,
Fire prevention kit, First Aid box, Safety Tags, Safety Notice Board



कौशल विकास और
उद्यमशीलता मंत्रालय
MINISTRY OF
SKILL DEVELOPMENT
AND ENTREPRENEURSHIP



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Module 5: Employability Skills

Mapped to DGT/VSQ/N0103, v1.0

Duration: 90:00

Key Learning Outcomes

Introduction to Employability Skills Duration: 3 Hours

After completing this programme, participants will be able to:

1. Outline the importance of Employability Skills for the current job market and future of work
2. List different learning and employability related GOI and private portals and their usage
3. Research and prepare a note on different industries, trends, required skills and the available opportunities

Constitutional values – Citizenship Duration: 1.5 Hours

4. Explain the constitutional values, including civic rights and duties, citizenship, responsibility towards society and personal values and ethics such as honesty, integrity, caring and respecting others that are required to become a responsible citizen
5. Demonstrate how to practice different environmentally sustainable practices

Becoming a Professional in the 21st Century Duration: 5 Hours

6. Discuss relevant 21st century skills required for employment
7. Highlight the importance of practicing 21st century skills like Self-Awareness, Behavior Skills, time management, critical and adaptive thinking, problem-solving, creative thinking, social and cultural awareness, emotional awareness, learning to learn etc. in personal or professional life
8. Create a pathway for adopting a continuous learning mindset for personal and professional development

Basic English Skills Duration: 10 Hours

9. Show how to use basic English sentences for everyday conversation in different contexts, in person and over the telephone
10. Read and understand text written in basic English
11. Write a short note/paragraph / letter/e -mail using correct basic English

Career Development & Goal Setting Duration: 4 Hours

12. Create a career development plan
13. Identify well-defined short- and long-term goals

Communication Skills Duration: 10 Hours

14. Demonstrate how to communicate effectively using verbal and nonverbal communication etiquette
15. Write a brief note/paragraph on a familiar topic



कौशल विकास और
उद्यमशीलता मंत्रालय
MINISTRY OF
**SKILL DEVELOPMENT
AND ENTREPRENEURSHIP**



Skill India
कौशल भारत - कुशल भारत



16. Explain the importance of communication etiquette including active listening for effective communication
17. Role play a situation on how to work collaboratively with others in a team

Diversity and Inclusion Duration: 2.5 Hours

18. Demonstrate how to behave, communicate, and conduct appropriately with all genders and PwD
19. Discuss the significance of escalating sexual harassment issues as per POSH act

Financial and Legal Literacy Duration: 10 Hours

20. Discuss various financial institutions, products, and services
21. Demonstrate how to conduct offline and online financial transactions, safely and securely and check passbook/statement
22. Explain the common components of salary such as Basic, PF, Allowances (HRA, TA, DA, etc.), tax deductions
23. Calculate income and expenditure for budgeting
24. Discuss the legal rights, laws, and aids

Essential Digital Skills Duration: 20 Hours

25. Describe the role of digital technology in day-to-day life and the workplace
26. Demonstrate how to operate digital devices and use the associated applications and features, safely and securely
27. Demonstrate how to connect devices securely to internet using different means
28. Follow the dos and don'ts of cyber security to protect against cyber crimes
29. Discuss the significance of displaying responsible online behavior while using various social media platforms
30. Create an e-mail id and follow e-mail etiquette to exchange e-mails
31. Show how to create documents, spreadsheets and presentations using appropriate applications
32. utilize virtual collaboration tools to work effectively

Entrepreneurship Duration: 7 Hours

33. Explain the types of entrepreneurship and enterprises
34. Discuss how to identify opportunities for potential business, sources of funding and associated financial and legal risks with its mitigation plan
35. Describe the 4Ps of Marketing-Product, Price, Place and Promotion and apply them as per requirement
36. Create a sample business plan, for the selected business opportunity

Customer Service Duration: 9 Hours

37. Classify different types of customers
38. Demonstrate how to identify customer needs and respond to them in a professional manner
39. Discuss various tools used to collect customer feedback
40. Discuss the significance of maintaining hygiene and dressing appropriately



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उद्यमशीलता मंत्रालय
MINISTRY OF
SKILL DEVELOPMENT
AND ENTREPRENEURSHIP



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Getting ready for apprenticeship & Jobs Duration: 8 Hours

41. Draft a professional Curriculum Vitae (CV)
42. Use various offline and online job search sources to find and apply for jobs
43. Discuss the significance of maintaining hygiene and dressing appropriately for an interview
44. Role play a mock interview
45. List the steps for searching and registering for apprenticeship opportunities



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उद्यमशीलता मंत्रालय
MINISTRY OF
SKILL DEVELOPMENT
AND ENTREPRENEURSHIP



Module 6: On-the-Job Training

Mapped to 7D BIM Creator - BIM & IoT Integration

Mandatory Duration: 150:00	Recommended Duration: 00:00
Location: On-Site	
Terminal Outcomes <ul style="list-style-type: none">• Explain BIM and how they apply to the design and construction industry.• Explain the importance of using a scalable and configurable BIM management system.• Integrate the IoT-based monitoring system with 7D BIM for efficient and real-time monitoring of the facility, e.g. events and physical changes.• Use the appropriate IoT-based solutions to reduce the maintenance and energy costs in the facility, e.g. smart lighting system.• Use cloud computing to store and utilize the large-scale data generated by IoT devices, with the increased data security and ease of accessing it.• Create and implement the appropriate BIM IoT workflow, utilizing web-connected devices to supervise and control data exchanges directly from the digital BIM model.• Use fire protection equipment for a different types of fire hazards.	



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उद्यमशीलता मंत्रालय
MINISTRY OF
SKILL DEVELOPMENT
AND ENTREPRENEURSHIP



Annexure

Trainer Requirements

Trainer Prerequisites						
Minimum Educational Qualification	Specialization	Relevant Industry Experience		Training Experience		Remarks
		Years	Specialization	Years	Specialization	
ITI/12th	Any domain	13	Building information modelling (BIM)	0	-	
Diploma in Engineering	Civil Engineering/ Mechanical Engineering/ Manufacturing/ Mathematics/ Physics degree	10	Building information modelling (BIM)	0	-	
Graduate	Civil Engineering/ Mechanical Engineering	8	Building information modelling (BIM)	0	-	

Trainer Certification	
Domain Certification	Platform Certification
Certified for Job Role “7D BIM Creator - BIM & IoT Integration”, mapped to QP: “CON/Q2104, v1.0”, Minimum accepted score is 80%	Recommended that the Trainer is certified for the Job Role: “Trainer (Vet and Skills)”, mapped to the Qualification Pack: “MEP/Q2601, v2.0”. The minimum accepted score as per MEPSC guidelines is 80%.



कौशल विकास और
उद्यमशीलता मंत्रालय
MINISTRY OF
**SKILL DEVELOPMENT
AND ENTREPRENEURSHIP**



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Assessor Requirements

Assessor Prerequisites						
Minimum Educational Qualification	Specialization	Relevant Industry Experience		Training/Assessment Experience		Remarks
		Years	Specialization	Years	Specialization	
ITI/12th	Any domain	13	Building information modelling (BIM)	0	-	
Diploma in Engineering	Civil Engineering/ Mechanical Engineering/ Manufacturing/ Mathematics/ Physics degree	10	Building information modelling (BIM)	0	-	
Graduate	Civil Engineering/ Mechanical Engineering	8	Building information modelling (BIM)	0	-	

Assessor Certification	
Domain Certification	Platform Certification
Certified for Job Role “7D BIM Creator - BIM & IoT Integration”, mapped to QP: “CON/Q2104, v1.0”, Minimum accepted score is 80%	Certified for the Job Role: “Assessor (Vet and Skills)”, mapped to the Qualification Pack: “MEP/Q2701, v2.0”, with a minimum score of 80%.



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उद्यमशीलता मंत्रालय
MINISTRY OF
SKILL DEVELOPMENT
AND ENTREPRENEURSHIP



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.

1. Assessment System Overview:

- Batches assigned to the assessment agencies for conducting the assessment on SIP
- The batch allocation Matrix prepared for each month based on previous months' performance of AAs, which determines the quantum of Assessment which can be allocated to each AA for a month
- Post allocation of assessment, Assessment agencies send the assessment confirmation to SSC
- Assessment agency deploys the ToA certified Assessor for executing the assessment
- SSC monitors the assessment process.

2. Testing Environment:

- A combination of Theory and practical/demonstration test is deployed to assess knowledge and Skill respectively of Learners.
- Assessment is conducted at Training center in in-person/offline mode
- For Skill assessment, environment is simulated to create a realistic Working Environment that should replicate the key features of the workplace. In job roles, where it is difficult to replicate the same, the OJT assessment is implemented.
- During the practical task, trainees are assessed on their workmanship, quality of finished product, time management, etc., based on the performance criteria (PC), knowledge and understanding and their professional and soft skills as specified in the qualification pack.
- Knowledge assessment is done through closed ended questions up to level 4 and from level 5 onwards, it is mixture of open ended and closed ended questions

3. Assessment Quality Assurance levels/Framework

- Assessment criteria is developed for each QP which acts as a guide for developing question set /banks
- Sample questions aligned with Assessment criteria for each QP are developed by SSC and validated by industry
- Taking reference of Assessment criteria and Sample Questions, AAs create the question bank which is further validated by SSC
- Questions are mapped to the specified assessment criteria
- It is mandatory that Assessor and Trainer must be ToA certified & ToT Certified respectively
- Continuous Monitoring through virtual and In-person mode are conducted to ensure the assessment is conducted as per stipulated process
- Process and Technical audit of assessment batches by quality team are conducted to avoid the errors in assessment process



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उद्यमशीलता मंत्रालय
MINISTRY OF
SKILL DEVELOPMENT
AND ENTREPRENEURSHIP



- A well -defined comprehensive framework of NON-COMPLIANCE MATRIX is defined and implemented to identify the non-compliance made by assessor and AA and punitive actions are taken correspondingly.
- The capacity building sessions are conducted regularly for assessors and assessment agencies to update them about best practices in assessment

4. Types of evidence or evidence-gathering protocol:

- Post Assessment, the evidences are uploaded by Assessor to assessment agency and further assessment agency to SSC as per stipulated TAT
- Evidences are broadly the photographic and video graphic in nature
- Assessment agencies upload the evidence on SIP and detailed evidence on SSC digital platform (ZoHO)
- Evidences are; NOS wise-Geotagged photographs and videos of Theory Test & Practical Tasks, Attendance sheet, result summary sheet, group photographs.

5. Method of verification or validation:

- The process and technical audit of assessment batches are done by SSC
- Attendance of each candidate is verified and it is ensured that only those candidates are assessed by assessors who are meeting the stipulated minimum percentage of attendance
- The result of each candidate is verified, it is verified that that result on SIP are matching with respect to summary sheet submitted by AAs
- Under detailed technical audit for sample of batches, the knowledge and skill assessment results for each candidate is checked in technical aspect.
- All the evidences of batches are preserved on server of SSC digital platform

On the Job:

- On job training (OJT), candidates undergo training and learning at actual workplace for a fixed period of time and a certain weightage of assessment is allocated out of total skill weightage of Qualification Pack for undergoing OJT as stipulated by CSDCI. This OJT score and assessors' end point score are combined to arrive at final Marking/grading of trainees' skill test. The OJT score is determined by Supervisor of company under which candidates undergo on job training.



कौशल विकास और
उद्यमशीलता मंत्रालय
MINISTRY OF
SKILL DEVELOPMENT
AND ENTREPRENEURSHIP



Acronyms and Abbreviations

Term	Description
QP	Qualification Pack
NSQF	National Skills Qualification Framework
NSQC	National Skills Qualification Committee
NOS	National Occupational Standards
CSDCI	Construction Skill development Council of India
MCQ	Multiple Choice Question
EHS	Environment Health and Safety