



Model Curriculum

QP Name: Network Cloud – Jr. Architect

QP Code: TEL/Q6215

QP Version: 3.0

NSQF Level: 4

Model Curriculum Version: 3.0

Telecom Sector Skill Council Estel House, 3rd Floor, Plot No: - 126, Sector - 44, Gurugram,
Haryana 122003

Table of Contents

Training Parameters	3
Program Overview	5
Training Outcomes	5
Compulsory Modules	5
Module 1: Introduction to the role of Network Cloud– Jr. Architect	8
Module 2: Prepare for Cloud-Based Software or Application Testing in Telecom Networks	10
Module 3: Perform Cloud Testing and Resolve Bugs in Telecom Applications	12
Module 4: Maintain Cloud Infrastructure Components Supporting Telecom Services	14
Module 5: Manage Telecom IT Infrastructure and Network Assets	16
Module 6: Work and Resource Organization Aligned with Health and Safety Regulations	18
Module 7: Interact Effectively with Team Members and Customers	20
Module 8: DGT/VSQ/N0101: Employability Skills (30 Hours)	22
Annexure	25
Trainer Requirements	25
Assessor Requirements	26
Assessment Strategy	27
References	29
Glossary	29
Acronyms and Abbreviations	31

Training Parameters

Sector	Telecom
Sub-Sector	Network Managed Services
Occupation	Network Operation & Maintenance
Country	India
NSQF Level	4
Credits	16
Aligned to NCO/ISCO/ISIC Code	NCO-2015/1330.6215
Minimum Educational Qualification & Experience	<p>12th grade pass</p> <p>OR</p> <p>Completed 2nd year of 3-year diploma* (after 10th)</p> <p>OR</p> <p>Previous relevant Qualification of NSQF Level 3.5 with 1.5-year relevant experience**</p> <p>OR</p> <p>Previous relevant Qualification of NSQF Level 3.0 with 3-year relevant experience**</p> <p>*Diploma in Electronics and Telecommunication, IT, CS, Cloud computing, Networking and System Administration or any other related fields of Computer Applications, or Technology.</p> <p>** Relevant experience in cloud service provisioning, basic server or virtual machine setup, network configuration in cloud environments, system monitoring, or supporting cloud-based infrastructure in enterprise or IT support environments.</p>
Minimum Level of Education for Training in School	12 th Class
Pre-Requisite License or Training	NA
Minimum Job Entry Age	NA
Last Reviewed On	19-Aug-2025
Next Review Date	30-June-2028

NSQC Approval Date	19-Aug-2025
Version	3.0
Reference code on NQR	
NQR Version	3
Minimum Duration of the Course	480 hours
Maximum Duration of the Course	480 hours

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.

- Identify the roles and responsibilities of a cloud testing professional in different stages of the software development lifecycle
- Demonstrate how to prepare cloud-based environments, tools, and infrastructure for software or application testing
- Apply cloud testing methodologies to perform functional, performance, compatibility, and security testing of applications
- Illustrate the process of identifying, reporting, and fixing bugs and defects found during cloud testing
- Monitor and maintain cloud infrastructure components to ensure availability, scalability, and security compliance
- Manage IT infrastructure and assets, including tracking inventory, licenses, updates, and ensuring asset security
- Demonstrate workplace communication and collaboration techniques for efficient team interactions and customer engagements
- Comply with organizational and regulatory health, safety, and security standards while working with cloud and IT infrastructure

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
TEL/N6279: Prepare for Cloud-Based Software or Application Testing in Telecom Networks NOS Version No. 3.0 NSQF Level 4	20:00	30:00	40:00	-	90:00
Module 1: Introduction to the role of Network Cloud– Jr. Architect	10:00	00:00	00:00	-	10:00
Module 2: Prepare for Cloud-Based Software or Application	10:00	30:00	40:00	-	80:00

Testing in Telecom Networks					
TEL/N6612: Perform Cloud Testing and Resolve Bugs in Telecom Applications NOS Version No. 3.0 NSQF Level 4	30:00	50:00	40:00	-	120:00
Module 3: Perform Cloud Testing and Resolve Bugs in Telecom Applications	30:00	50:00	40:00	-	120:00
TEL/N6613: Maintain Cloud Infrastructure Components Supporting Telecom Services NOS Version No. 3.0 NSQF Level 4	30:00	40:00	20:00	-	90:00
Module 4: Maintain Cloud Infrastructure Components Supporting Telecom Services	30:00	40:00	20:00	-	90:00
TEL/N6614: Manage Telecom IT Infrastructure and Network Assets NOS Version No. 3.0 NSQF Level 4	20:00	40:00	30:00	-	90:00
Module 5: Manage Telecom IT Infrastructure and Network Assets	20:00	40:00	30:00	-	90:00
TEL/N9101: Organise Work and Resources as per Health and Safety Standards NOS Version No. 3.0 NSQF Level 4	10:00	10:00	10:00	-	30:00
Module 6: Work and Resource Organization Aligned with Health and Safety Regulations	10:00	10:00	10:00	-	30:00
TEL/N9102: Interact Effectively with Team Members and Customers NOS Version No. 3.0 NSQF Level 4	10:00	10:00	10:00	-	30:00

Module 6: Interact Effectively with Team Members and Customers	10:00	10:00	10:00	-	30:00
DGT/VSQ/N0101 - Employability Skills (30 hours) NOS Version No. 1.0 NSQF Level – 4	30:00	-	-	-	30:00
Total Duration	150:00	180:00	150:00	-	480:00

Module Details

Module 1: Introduction to the role of Network Cloud– Jr. Architect

TEL/N6279 Version 3

Terminal Outcomes:

- Describe the size, scope, and subsectors of the telecom industry, demonstrating an understanding of its evolving structure, cloud adoption trends, and network virtualization across service domains.
- Explain the key responsibilities, technical tasks, and compliance requirements of a Network Cloud– Jr. Architect within cloud-based telecom environments.
- Summarize the company's policies related to public relations, quality standards, personnel management, workplace ethics, and site management regulations, as applicable to cloud infrastructure deployment and operations.
- Illustrate the company's workflow and analyse how a Network Cloud– Jr. Architect contributes to different phases of telecom cloud design, deployment, and optimization.
- List and differentiate the daily, weekly, and monthly operations and activities undertaken by a Network Cloud– Jr. Architect at a telecom project or operations site.

Duration: 10:00	Duration: 0:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • Describe the size, scope, and key subsectors of the telecom industry that influence the role of a Network Cloud– Jr. Architect. • Outline the responsibilities and core duties of a Network Cloud– Jr. Architect in supporting cloud-based telecom infrastructure. • Explain the organization's standards related to public relations (PR), quality assurance, team management, professional ethics, and rules governing site operations relevant to the Network Cloud– Jr. Architect. • Describe the company's operational workflow and how a Network Cloud– Jr. Architect contributes to network deployment, cloud resource optimization, and collaboration with cross-functional teams. • List the typical daily, weekly, and monthly tasks and activities handled by a Network Cloud– Jr. Architect within a telecom project environment. 	

Classroom Aids:

Participant handbook, whiteboard, marker, notepad, pen, computer or laptop with internet connection, projector or large screen, speakers

Tools, Equipment and Other Requirements

Cloud Platform Access (Free tier), Web Browser, Notepad, or Text Editor.

Module 2: Prepare for Cloud-Based Software or Application Testing in Telecom Networks

Mapped to TEL/N6279 & V3.0

Terminal Outcomes:

- Develop a comprehensive cloud-based test strategy that aligns with application architecture, deployment models, and compliance standards.
- Configure and maintain a secure, production-like test environment using appropriate cloud services and automation tools.
- Demonstrate effective coordination and communication with cross-functional teams to ensure timely and accurate test execution.
- Implement traceable documentation and compliance measures to support test transparency and reusability.

Duration: 10:00	Duration: 30:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • Identify cloud environment types (public, private, hybrid) and analyze their implications on testing strategies and data security. • Explain the significance of access controls, encryption, and data anonymization in maintaining compliance with organizational and regulatory standards. • Interpret technical specifications and user stories to formulate cloud-specific test requirements and environment setups. • Compare different cloud testing models (IaaS, PaaS, SaaS) and justify their selection based on the application architecture and testing objectives. • Describe integration points between test automation tools and CI/CD pipelines and discuss their role in continuous testing. • Document environment configuration details, test scripts, and access control records for traceability and team collaboration. • Explain the purpose of cloud-native testing in telecom environments and the role of SD-WAN and OSS/BSS platforms. • Identify the requirements for selecting suitable cloud platforms and test environments based on telecom software 	<ul style="list-style-type: none"> • Provision appropriate cloud platforms (AWS, Azure, GCP) and configure test environments with required OS, middleware, databases, and dependencies. • Install and integrate automation tools (e.g., Katalon Studio, Rest Assured) with CI/CD pipelines for seamless test execution. • Validate connectivity, synchronization, and service availability between the test and production-like environments. • Execute smoke or sanity tests to verify environment readiness and rectify setup issues during test dry runs. • Coordinate with developers, DevOps, and other stakeholders to align testing activities with release timelines and communicate readiness updates. • Configure cloud-native testing tools and simulate connectivity with virtualized infrastructure and SD-WAN systems. • Collaborate with development and operations teams to create an optimized cloud testing environment for telecom-grade applications.

specifications.	
Classroom Aids:	
Participant handbook, whiteboard, marker, notepad, pen, computer or laptop with internet connection, projector or large screen, speakers	
Tools, Equipment and Other Requirements	
Cloud Platform Access (Free tier), Test Management Tools (e.g., TestRail, JIRA), Cloud Testing Tools (e.g., Apache JMeter, Postman), Code Editor (e.g., Visual Studio Code).	

Module 3: Perform Cloud Testing and Resolve Bugs in Telecom Applications

Mapped to TEL/N6612 & v3.0

Terminal Outcomes:

- Analyze and define cloud-based testing strategies that align with the application architecture, environment type, and compliance requirements.
- Deploy and maintain secure, scalable, and automated testing environments across multiple cloud platforms.
- Conduct structured testing and debugging workflows that ensure the reliability, performance, and compliance of cloud applications.
- Report and communicate test outcomes, defects, and enhancement suggestions clearly to technical and non-technical stakeholders.

Duration: 30:00	Duration: 50:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • Analyze cloud testing requirements from documentation and interpret system architecture to identify potential testing challenges and deployment constraints. • Differentiate between cloud service models (IaaS, PaaS, SaaS) and select appropriate testing approaches and methodologies accordingly. • Evaluate the relevance of cloud environments (public, private, hybrid) in context of application architecture and compliance needs. • Explain security practices such as data encryption, access control, and anonymization in line with legal and organizational policies. • Design comprehensive cloud-specific test cases targeting functionality, performance, security, and scalability. • Assess test results and bug reports to prioritize issues and recommend improvements in the cloud architecture or testing strategies. • Summarize testing outcomes in detailed reports that communicate key metrics, resolutions, and learning outcomes to stakeholders. • Describe the importance of cloud-based automated and manual testing for telecom applications such as VoLTE and 5G functions. 	<ul style="list-style-type: none"> • Provision and configure required cloud platforms (e.g., AWS, Azure, GCP) and system components including OS, middleware, and databases. • Integrate automated testing tools (e.g., Selenium, Postman, JMeter) into CI/CD pipelines for continuous testing operations. • Execute smoke, sanity, functional, and non-functional tests (load, stress) to validate readiness and ensure expected performance. • Identify and log defects and performance issues during testing and collaborate with DevOps and developers to resolve them. • Conduct re-testing and regression testing to verify bug fixes and ensure no new issues have been introduced. • Validate post-fix application performance against benchmarks and confirm production-readiness of the application. • Execute automated/manual test cases to verify performance and functionality of cloud-hosted telecom applications. • Log and track bugs using issue management tools and coordinate their resolution with DevOps teams.

<ul style="list-style-type: none"> Explain the bug lifecycle and its role in continuous testing and DevOps workflows in telecom environments. 	
Classroom Aids:	
Participant handbook, whiteboard, marker, notepad, pen, computer or laptop with internet connection, projector or large screen, speakers	
Tools, Equipment and Other Requirements	
Cloud Platform Access (Free tier), Cloud Testing Tools (e.g., Apache JMeter, Postman, Selenium), Bug Tracking Software (e.g., Bugzilla, Jira)	

Module 4: Maintain Cloud Infrastructure Components Supporting Telecom Services

Mapped to TEL/N6613 & v3.0

Terminal Outcomes:

- Manage a complete, centralized IT asset inventory system using free or open-source tools while ensuring real-time accuracy.
- Deploy and maintain computing infrastructure and associated software securely and in line with organizational policies.
- Monitor infrastructure health, performance, and compliance using free monitoring and security tools.
- Document and report asset lifecycle events and utilization, providing data-driven recommendations for upgrades or disposals.
- Ensure legal and environmental compliance across asset acquisition, use, and decommissioning processes.

Duration: 30:00	Duration: 40:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • Identify and categorize IT assets into hardware, software, licenses, and network elements, and explain their role in business operations. • Understand and evaluate the use of free/open-source IT asset management tools like Snipe-IT or GLPI for centralized inventory tracking. • Analyze asset allocation practices and ensure appropriate assignment, access, and usage logs for compliance. • Interpret audit logs and reconcile discrepancies between inventory records and actual asset conditions. • Evaluate software deployment approaches and licensing requirements for organizational compliance. • Explain the role of virtual machines, containers, and orchestration systems in maintaining telecom cloud infrastructure. • Describe update and patch management processes and their importance in ensuring the reliability of OSS/BSS and virtualized core elements. • Apply preventive maintenance concepts to extend the lifespan of IT assets and evaluate the impact of missed maintenance. 	<ul style="list-style-type: none"> • Install and configure computing devices such as desktops, laptops, and network peripherals according to organizational standards. • Deploy and configure software applications using organization-approved models, utilizing tools like PDQ Deploy, WSUS, or Clonezilla. • Implement OS setup, security patching, and network configurations using free tools. • Perform diagnostics and resolve hardware issues on devices such as printers, routers, and projectors. • Monitor system performance and resource usage using tools like Nagios Core, Zabbix, or Netdata. • Coordinate updates for firmware and drivers to maintain system performance and security. • Troubleshoot and resolve common OS, connectivity, and hardware issues; escalate as per SOPs if unresolved. • Implement access control, encryption, and endpoint protection using BitLocker, ClamAV, or Windows Defender. • Isolate and report incidents involving asset loss, theft, or misuse in line with company policies. • Monitor and maintain cloud-based telecom infrastructure to ensure uptime and

<ul style="list-style-type: none"> Assess and enforce internal policies on software license compliance, data access, and unauthorized application use. Maintain documentation for procurement, assignment, return, and disposal of IT assets, ensuring traceability. Evaluate asset lifecycle data to recommend upgrades, replacements, or decommissioning. Prepare reports for audits and management reviews based on asset status, usage, and performance. Understand and ensure environmental and e-waste compliance for asset disposal. 	<ul style="list-style-type: none"> performance using appropriate tools. Implement routine patches, updates, and resource optimization to support critical telecom services and applications.
Classroom Aids:	
Participant handbook, whiteboard, marker, notepad, pen, computer or laptop with internet connection, projector or large screen, speakers	
Tools, Equipment and Other Requirements:	
Cloud Platform Access (e.g., AWS Free Tier, Azure Free Tier), Cloud Management Tools (e.g., Terraform, CloudFormation), Virtualization Software (e.g., VirtualBox, VMware Workstation)	

Module 5: Manage Telecom IT Infrastructure and Network Assets

Mapped to TEL/N6614 & v3.0

Terminal Outcomes:

- Develop and manage a comprehensive, real-time inventory of IT assets using open-source tools, ensuring seamless tracking and classification.
- Execute the complete setup and configuration of hardware and software while maintaining compliance with internal standards.
- Apply IT security best practices, including encryption, access control, and software license enforcement to safeguard digital assets.
- Document asset activities across their lifecycle and generate actionable insights through regular reporting for audits and decision-making.

Duration: 20:00	Duration: 40:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • Identify and differentiate between various IT assets such as hardware, software, licenses, and network components, and explain their roles in IT infrastructure. • Understand and apply the functionality of open-source asset management systems like Snipe-IT or GLPI for maintaining an up-to-date and centralized inventory. • Describe asset allocation processes and demonstrate how to assign assets with accurate tracking of access and usage history. • Evaluate inventory audit techniques and analyze discrepancies between recorded and actual asset status to ensure data integrity. • Explain software deployment methods in accordance with approved licensing protocols and apply these principles during installations. • List various telecom cloud and IT assets (e.g., hardware, licenses, network services) used in cloud-hosted environments. • Explain the importance of asset inventory management and configuration updates in telecom cloud infrastructure. 	<ul style="list-style-type: none"> • Install and configure hardware components including desktops, laptops, and network peripherals based on organizational requirements and configurations. • Deploy and configure enterprise-level software using licensing guidelines and tools that support automation and consistency. • Set up operating systems, apply network configurations, and implement security updates using free tools like PDQ Deploy, WSUS, or Clonezilla. • Diagnose and repair issues in peripheral hardware including routers, printers, and projectors to maintain operational readiness. • Monitor system metrics such as uptime, CPU/memory usage, and service availability using tools like Nagios Core, Zabbix, or Netdata. • Coordinate the rollout of firmware and driver updates for various hardware to ensure compatibility and prevent vulnerabilities. • Maintain an accurate inventory of telecom IT and cloud assets using asset management tools. • Perform field-level deployments and apply configuration updates, ensuring alignment with security and operational standards. • Troubleshoot basic system errors including OS failures and network disconnections;

- Apply knowledge of preventive maintenance to minimize system downtime and analyze maintenance logs for trends or upcoming risks.
- Explain the importance of compliance logs and demonstrate how to keep asset access records in line with data protection policies.
- Enforce organizational IT security protocols by identifying unlicensed or unauthorized software and evaluate their potential risks.
- Document asset movement and lifecycle activities such as procurement, repair, and disposal for accountability and analyze asset history to inform decisions.
- Assess usage data and recommend asset upgrades, replacements, or decommissioning based on lifecycle and performance indicators.
- Compile and present reports on asset status and performance metrics for internal audits and management reviews.
- Understand and apply proper disposal methods for IT assets, ensuring environmental safety and adherence to e-waste regulations.

escalate unresolved issues in line with SOPs.

- Implement device security using endpoint protection, access control, and encryption tools such as Windows Defender, ClamAV, and BitLocker.
- Isolate affected assets and report incidents related to theft, loss, or potential misuse to IT security teams or supervisors.

Classroom Aids:

Participant handbook, whiteboard, marker, notepad, pen, computer or laptop with internet connection, projector or large screen, speakers

Tools, Equipment and Other Requirements:

Monitoring Tools (e.g., Zabbix, Nagios), Network Analyzer (e.g., Wireshark), Remote Desktop Tools (e.g., TeamViewer, AnyDesk)

Module 6: Work and Resource Organization Aligned with Health and Safety Regulations

Mapped to TEL/N9101 & v3.0

Terminal Outcomes:

- Demonstrate how to maintain an organised, clutter-free, and ergonomically safe workspace aligned with 5S and organisational SOPs.
- Apply standard health, safety, and environmental (HSE) practices, including hazard detection, PPE usage, and incident reporting as per workplace protocols.
- Use safe material handling, energy conservation techniques, and equipment maintenance procedures to ensure resource-efficient and risk-free operations.
- Perform systematic waste segregation and disposal in compliance with hazardous and e-waste guidelines.

Duration: 10:00	Duration: 10:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> ● Describe the principles and importance of 5S methodology for workplace organisation. ● Illuminate on the organisational SOPs related to workflow management, task allocation, and quality assurance. ● Comprehend health, safety, and environmental policies, including national/international standards like ISO 45001 and ISO 14001. ● Recognise common workplace hazards such as ESD, fire risks, electrical faults, and EMI interference, as well as their potential impacts. ● Discuss different types and correct uses of personal protective equipment (PPE) in a drone maintenance environment. ● Discuss various energy conservation practices relevant to lighting, HVAC, and equipment usage. ● Explain the role and benefits of digital tools for logging, task management, and inventory control in a workplace organisation. 	<ul style="list-style-type: none"> ● Demonstrate how to organise and maintain a clean, clutter-free, and ergonomically safe workspace in compliance with 5S principles. ● Use digital platforms or apps to log work progress, record material consumption, and update task checklists accurately. ● Apply organisational SOPs to follow designated workflows and escalate delays or material shortages. ● Show correct selection, usage, and disposal of PPE while handling drones, tools, and hazardous materials. ● Role-play to report workplace hazards such as spills, loose wiring, or EMI sources in real time. ● Perform safe lifting, equipment handling, and maintain correct posture during physical tasks to prevent injury. ● Conduct lockout/tagout procedures before servicing electrical or moving drone components. ● Demonstrate safe battery handling, charging, and storage processes using approved methods and equipment. ● Demonstrate safe manual handling techniques, workstation ergonomics, and first aid basics for workplace injuries. ● Perform energy conservation actions such as switching off unused equipment and reporting

	<p>any malfunctioning devices.</p> <ul style="list-style-type: none"> • Employ appropriate techniques to segregate and dispose of waste correctly into hazardous, recyclable, and e-waste bins following SOPs. • Role-play effective communication of safety breaches, incidents, or health symptoms to supervisors or authorities promptly.
Classroom Aids:	
Participant handbook, whiteboard, marker, notepad, pen, computer or laptop with internet connection, projector or large screen, speakers	
Tools, Equipment and Other Requirements:	
Health and Safety Management Software (e.g., SafetyCulture, iAuditor), Ergonomic Desk and Chair, Personal Protective Equipment (PPE) (e.g., gloves, masks, goggles, ear protection), First Aid Kit, Fire Extinguisher, Safety Signage (e.g., emergency exit, safety instructions), Spill Kits, Organizational Tools (e.g., shelving units, document storage), Time Management Software (e.g., Trello, Microsoft Teams), Task Scheduling Tools (e.g., Google Calendar, Asana).	

Module 7: Interact Effectively with Team Members and Customers

Mapped to TEL/N9102, v3.0

Terminal Outcomes:

- Demonstrate effective communication with supervisors, stakeholders, and team members using appropriate verbal, non-verbal, and digital tools.
- Collaborate with team members to resolve conflicts, support inclusivity, and achieve shared goals in hybrid or in-person work environments.
- Apply emotional intelligence and cultural sensitivity while interacting with customers, colleagues, and persons with disabilities (PwDs).
- Role-play workplace situations involving feedback reception, conflict de-escalation, and inclusive participation to build a respectful work culture.

Duration: 10:00	Duration: 10:00
Theory – Key Learning Outcomes	Practical – Key Learning Outcomes
<ul style="list-style-type: none"> • Explain the organisational hierarchy and the roles and responsibilities of supervisors, team members, and stakeholders. • Describe professional etiquette for verbal, non-verbal, and digital communication in face-to-face and remote settings. • Explain the importance of clear communication, active listening, and timely information sharing at the workplace. • List commonly used communication tools (e.g., emails, messaging apps, video conferencing platforms) and their features. • Explain methods for giving and receiving feedback constructively within a professional context. • Identify common challenges faced by Persons with Disabilities (PwDs) and strategies for supporting them in the workplace. • Summarise the legal and organisational policies on diversity, equity, and inclusion. • Explain techniques for preventing and resolving conflicts through respectful dialogue and escalation when necessary. 	<ul style="list-style-type: none"> • Demonstrate professional communication with supervisors or clients through various tools like email, chat, or virtual meetings. • Role-play a workplace situation where feedback is received and acted upon constructively to improve performance. • Apply emotional intelligence principles during group activities or customer interactions to build rapport and cooperation. • Engage appropriate conflict resolution techniques to de-escalate disagreements and restore team harmony. • Display inclusive behaviour, cultural sensitivity, and emotional intelligence while interacting with people from diverse backgrounds and PwDs. • Role-play to collaborate with peers on group tasks, aligning with team goals while respecting individual contributions. • Conduct a virtual meeting adhering to digital etiquette, ensuring participation and accessibility for all. • Facilitate respectful team discussions where all voices are heard, and equal opportunity for input is maintained.
Classroom Aids:	

Participant handbook, whiteboard, marker, notepad, pen, computer or laptop with internet connection, projector or large screen, speakers

Tools, Equipment and Other Requirements:

Smartphone with communication apps, Headset with mic, Notepad, Pen, Basic presentation board

Module 8: DGT/VSQ/N0101: Employability Skills (30 Hours)

Mandatory Duration: 30:00			
Location: On-Site			
S.No.	Module Name	Key Learning Outcomes	Duration (hours)
1.	Introduction to Employability Skills	<ul style="list-style-type: none"> Discuss the importance of Employability Skills in meeting the job requirements 	1 Hour
2.	Constitutional values - Citizenship	<ul style="list-style-type: none"> Explain constitutional values, civic rights, duties, citizenship, responsibility towards society etc. that are required to be followed to become a responsible citizen. Show how to practice different environmentally sustainable practices 	1 Hour
3.	Becoming a Professional in the 21st Century	<ul style="list-style-type: none"> Discuss 21st century skills. Display positive attitude, self - motivation, problem solving, time management skills and continuous learning mindset in different situations. 	1 Hour
4.	Basic English Skills	<ul style="list-style-type: none"> Use appropriate basic English sentences/phrases while speaking 	2 Hours
5.	Communication Skills	<ul style="list-style-type: none"> Demonstrate how to communicate in a well -mannered way with others. Demonstrate working with others in a team 	4 Hours
6.	Diversity & Inclusion	<ul style="list-style-type: none"> Show how to conduct oneself appropriately with all genders and PwD Discuss the significance of reporting sexual harassment issues in time 	1 Hour
7.	Financial and Legal Literacy	<ul style="list-style-type: none"> Discuss the significance of using financial products and services safely and securely. Explain the importance of managing expenses, income, and savings. Explain the significance of approaching the concerned authorities in time for any 	4 Hours

		exploitation as per legal rights and laws	
8.	Essential Digital Skills	<ul style="list-style-type: none"> Show how to operate digital devices and use the associated applications and features, safely and securely Discuss the significance of using internet for browsing, accessing social media platforms, safely and securely 	3 Hours
9.	Entrepreneurship	<ul style="list-style-type: none"> Discuss the need for identifying opportunities for potential business, sources for arranging money and potential legal and financial challenges 	7 Hours
10.	Customer Service	<ul style="list-style-type: none"> Differentiate between types of customers Explain the significance of identifying customer needs and addressing them Discuss the significance of maintaining hygiene and dressing appropriately 	4 Hours
11.	Getting ready for apprenticeship & Jobs	<ul style="list-style-type: none"> Create a biodata Use various sources to search and apply for jobs Discuss the significance of dressing up neatly and maintaining hygiene for an interview Discuss how to search and register for apprenticeship opportunities 	2 Hours

LIST OF TOOLS & EQUIPMENT FOR EMPLOYABILITY SKILLS		
Sl No.	Name of the Equipment	Quantity
1	Computer (PC) with latest configurations – and Internet connection with standard operating system and standard word processor and worksheet software (Licensed) (all software should either be latest version or one/two version below)	As required
2	UPS	As required
3	Scanner cum Printer	As required
4	Computer Tables	As required
5	Computer Chairs	As required
6	LCD Projector	As required

7	White Board 1200mm x 900mm	As required
<i>Note: Above Tools & Equipment not required, if Computer LAB is available in the institute.</i>		

Annexure

Trainer Requirements

Trainer Prerequisites						
Minimum Educational Qualification	Specialization	Relevant Industry Experience		Training Experience		Remarks
		Years	Specialization	Years	Specialization	
Diploma after 12 th	CS / IT / ECE / Telecom / Cloud Computing / Data Science / AI and other related fields	3	Cloud computing / Programming	1	IT infrastructure or cloud-related domains	Eligible for ToT program
Graduate	CS / IT / ECE / Telecom / Cloud Computing / Data Science / AI and other related fields	1	Cloud computing / Programming	NA	NA	Eligible for ToT program

Trainer Certification	
Domain Certification	Platform Certification
Certified for Job Role “ Network Cloud– Jr. Architect ”, version 3.0 TELQ6215”. Minimum accepted score is 80%.	Certified for Job Role: “ Trainer (VET and Skills) ”, mapped to Qualification Pack: “ MEP/Q2601, v3.0 ”, Minimum accepted score as per MEPSC guidelines is 80%.

Assessor Requirements

Assessor Prerequisites						
Minimum Educational Qualification	Specialization	Relevant Industry Experience		Training/Assessment Experience		Remarks
		Years	Specialization	Years	Specialization	
Diploma after 12 th	CS / IT / ECE / Telecom / Cloud Computing / Data Science / AI and other related fields	6	Cloud computing / Programming	4	IT infrastructure or cloud-related domains	Eligible for ToT program
Graduate	CS / IT / ECE / Telecom / Cloud Computing / Data Science / AI and other related fields	4	Cloud computing / Programming	NA	NA	Eligible for ToT program

Assessor Certification	
Domain Certification	Platform Certification
Certified for Job Role “ Network Cloud– Jr. Architect ”, version 3.0 TELQ6215”. Minimum accepted score is 80%.	Certified for Job Role: “ Assessor (VET and Skills) ”, mapped to Qualification Pack: “ MEP/Q2701, v3.0 ”, Minimum accepted score as per MEPSC guidelines is 80%.

Assessment Strategy

1. Assessment System Overview:

- Batches assigned to the assessment agencies for conducting the assessment on SDSM/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.
- If the batch size is more than 30 for STT and/ or 50 in RPL, 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 number 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 SME verified by the other subject Matter Experts
- Questions are mapped with NOS and PC
- Question Bank covers all performance criteria (PC) under each NOS of a QP. Each question can cover one or more PCs. Which means that every question needs to be mapped with PC.
- There are sufficient number of questions in the question bank, where multiple questions are available for each PC. Typically, the number of questions should be 3 to 4 times the number of PCs.
- Each question bank has around 150 to 200 questions.
- Each question has a difficulty level mentioned against it and the question bank has a good mix of easy, medium and difficult questions. So, for example out of 200 Questions the proportion could be 25 difficult/ hard, 75 Medium and 100 Easy level questions.
- Other than the Multiple-choice question (MCQ) few questions are created for Practical and viva too. For e.g., for 150-200 QB contains approximately 10-15 Viva & 10-15 practical questions.
- 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
 - Center 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

References

Glossary

Sector	Sector is a conglomeration of different business operations having similar business and interests. It may also be defined as a distinct subset of the economy whose components share similar characteristics and interests.
Sub-sector	Sub-sector is derived from a further breakdown based on the characteristics and interests of its components.
Occupation	Occupation is a set of job roles, which perform similar/ related set of functions in an industry.
Job role	Job role defines a unique set of functions that together form a unique employment opportunity in an organisation.
Occupational Standards (OS)	OS specify the standards of performance an individual must achieve when carrying out a function in the workplace, together with the Knowledge and Understanding (KU) they need to meet that standard consistently. Occupational Standards are applicable both in the Indian and global contexts.
Performance Criteria (PC)	Performance Criteria (PC) are statements that together specify the standard of performance required when carrying out a task.
National Occupational Standards (NOS)	NOS are occupational standards which apply uniquely in the Indian context.
Qualifications Pack (QP)	QP comprises the set of OS, together with the educational, training and other criteria required to perform a job role. A QP is assigned a unique qualifications pack code.
Unit Code	Unit code is a unique identifier for an Occupational Standard, which is denoted by an 'N'
Unit Title	Unit title gives a clear overall statement about what the incumbent should be able to do.
Description	Description gives a short summary of the unit content. This would be helpful to anyone searching on a database to verify that this is the appropriate OS they are looking for.
Scope	Scope is a set of statements specifying the range of variables that an individual may have to deal with in carrying out the function which have a critical impact on quality of performance required.

Knowledge and Understanding (KU)	Knowledge and Understanding (KU) are statements which together specify the technical, generic, professional and organisational specific knowledge that an individual needs in order to perform to the required standard.
Organisational Context	Organisational context includes the way the organisation is structured and how it operates, including the extent of operative knowledge managers have of their relevant areas of responsibility.
Technical Knowledge	Technical knowledge is the specific knowledge needed to accomplish specific designated responsibilities.
Core Skills/ Generic Skills (GS)	Core skills or Generic Skills (GS) are a group of skills that are the key to learning and working in today's world. These skills are typically needed in any work environment in today's world. These skills are typically needed in any work environment. In the context of the OS, these include communication related skills that are applicable to most job roles.
Electives	Electives are NOS/set of NOS that are identified by the sector as contributive to specialization in a job role. There may be multiple electives within a QP for each specialized job role. Trainees must select at least one elective for the successful completion of a QP with Electives.
Options	Options are NOS/set of NOS that are identified by the sector as additional skills. There may be multiple options within a QP. It is not mandatory to select any of the options to complete a QP with Options.

Acronyms and Abbreviations

NOS	National Occupational Standard(s)
NSQF	National Skills Qualifications Framework
QP	Qualifications Pack
TVET	Technical and Vocational Education and Training
PC	Performance Criteria
SSC	Sector Skill Council
AA	Assessment Agency
ToT	Training of Trainers
ToA	Training of Assessors
VTP	Vocational Training Partner
TC	Training Center
SME	Subject Matter Expert