QUALIFICATION FILE-*OEM*

Microsoft Azure Security Technologies

☒ Short Term Training (STT) ☐ Long Term Training (LTT) ☐ Apprenticeship

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

☒General ☐ Multi-Skill (MS) ☐ Cross Sectoral (CS) ☐ Future Skills ☒ Original Equipment Manufacturer (OEM)

NCrF/NSQF Level: 6

Submitted By:

Microsoft Corporation India Pvt. Ltd.

DLF Downtown, Level 8, Block 2
DLF Phase - 3, Sector - 25A
Gurugram 122002

Table of Contents

Section 1: Basic Details

<table>
<tr><td>1.</td><td>Qualification Name</td><td colspan="2">Microsoft Azure Security Technologies</td></tr>
<tr><td>2.</td><td>Sector/s</td><td colspan="2">IT/ITeS</td></tr>
<tr><td>3.</td><td>Type of Qualification: ☐ New ☐ Revised ☐ Has Electives/Options
☒ OEM</td><td>NQR Code & version of existing/previous qualification: (change to previous, once approved)
NA</td><td>Qualification Name of existing/previous version:
NA</td></tr>
<tr><td>4.</td><td>a. OEM Name
b. Qualification Name
(Wherever applicable)</td><td colspan="2">a. Microsoft
b. Microsoft Azure Security Technologies</td></tr>
<tr><td>5.</td><td>National Qualification Register (NQR) Code &Version
(Will be issued after NSQC approval)</td><td>NM-06-IT-04297-2025-V1-MCRSFT</td><td>6. NCrF/NSQF Level: 6</td></tr>
<tr><td>7.</td><td>Award (Certificate/Diploma/Advance Diploma/ Any Other (Wherever applicable specify multiple entry/exits also & provide details in annexure)</td><td colspan="2">Certificate</td></tr>
<tr><td>8.</td><td>Brief Description of the Qualification</td><td colspan="2">As the Azure security engineer, you implement, manage, and monitor security for resources in Azure, multi-cloud, and hybrid environments as part of an end-to-end infrastructure.</td></tr>
<tr><td>9.</td><td>Eligibility Criteria for Entry for Student/Trainee/Learner/Employee</td><td colspan="2">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></td><td>1.Any degree with ability to analyze and solve business problems using technology.
2.Any basic degree with understanding of basic IT concepts and terminology.
3.Pursuing first year of 2-year PG program after completing 3-year UG degree with intermediate knowledge of Azure.
4. Pursuing 1-year PG diploma after 3-year UG degree with intermediate knowledge of Azure.
5. Completed 4th year UG (in case of 4-year UG) with intermediate knowledge of Azure.
6. Pursuing 4th year UG (in case of 4-year UG) and continuing education with intermediate knowledge of</td><td>NA</td></tr>
</table></td></tr>
</table>

		Azure. 5. Completed 3-Year UG Degree (1 year relevant experience in Azure .

b. Age: NA

10.	**Credits Assigned to this Qualification, Subject to Assessment** *(as per National Credit Framework (NCrF))*	1	**11. Common Cost Norm Category (I/II/III)** *(wherever applicable)*:
12.	**Any Licensing requirements for Undertaking Training on This Qualification** *(wherever applicable)*	Azure Subscription/credits	

13. Training Duration by Modes of Training Delivery *(Specify **Total Duration** as per selected training delivery modes and as per requirement of the qualification)*

☐**Offline** ☒**Online** ☐**Blended**

Training Delivery Modes	Theory (Hours)	Practical (Hours)	OJT Mandatory (Hours)	OJT Recommended (Hours)	Total (Hours)
Classroom (offline)					
Online	20	10			30

(Refer Blended Learning Annexure for details)

14.	**Aligned to NCO/ISCO Code/s** *(if no code is available mention the same)*	
15.	**Progression path after attaining the qualification** *(Please show Professional and Academic progression)*	**Career Progression:** Azure Security Engineer → Cybersecurity Architect → Chief Information Security Officer (CISO) .
16.	**Other Indian languages in which the Qualification & Model Curriculum are being submitted**	
17.	**Is similar Qualification(s) available on NQR-if yes, justification for this qualification**	☐ **Yes** ☐ **No URLs of similar Qualifications:**
18.	**Is the Job Role Amenable to Persons with Disability**	☒ **Yes** ☐ **No** **If "Yes", specify the applicable type of Disability:** Physical Disability. Hearing and speech-impaired

19.	**How Participation of Women will be Encouraged**	Organisations are increasingly prioritising gender diversity and actively recruiting women from rural India to meet ESG compliance standards. Tailored, industry-relevant programs can equip women with the skills and confidence needed to succeed in multinational companies.	
20.	**Are Greening/ Environment Sustainability Aspects Covered** *(Specify the NOS/Module which covers it)*	☐ **Yes** ☐ **No**	
21.	**Is Qualification Suitable to be Offered in Schools/Colleges**	**Schools** ☒ **Yes** ☐ **No** **Colleges** ☒ **Yes** ☐ **No**	
22.	**Name and Contact Details of Submitting / Awarding Body SPOC** *(In case of CS or MS, provide details of both Lead AB & Supporting ABs)*	Name: Manju Dhasmana **Contact No.: +91 (124) 6561069(India)** Email: manjud@microsoft.com Name: Kishore Kumar Thangavelu **Contact No: +91 (124) 6561069(India)** Email: Kishore.Thangavelu@microsoft.com **Name:** Jennifer Filarski **Email:** jennifb@microsoft.com **Contact No.:** 425-704-7872 (USA) **Website: https://www.microsoft.com/en-us/**	
23.	**Final Approval Date by NSQC:** 8th May,2025	**24. Validity Duration: 3 Years**	**25. Next Review Date:6 May,2025**

Section 2: Training Related

1.	**Trainer's Qualification and experience in the relevant sector (in years)** *(as per NCVET guidelines)*	A minimum of 3 years experience in Microsoft Azure Security Technologies or in the related field.
2.	**Master Trainer's Qualification and experience in the relevant sector (in years)** *(as per NCVET guidelines)*	A minimum of 5 years experience in Microsoft Azure Security Technologies or Equivalent professional experience will also be considered
3.	**Tools and Equipment Required for the Training**	☐Yes ☐No *(If "Yes", details to be provided in Annexure)* **Laptop with Windows 10 or 11 Enterprise or Pro Software to perform Labs**
4.	**In Case of Revised NOS, details of Any Upskilling Required for Trainer**	NA

Section 3: Assessment Related

1.	**Assessor's Qualification and experience in relevant sector (in years)** *(as per NCVET guidelines)*	Graduate with minimum of 3 years experience in Microsoft Azure Security Technologies or its equivalent.
2.	**Proctor's Qualification and experience in relevant sector (in years)** *(as per NCVET guidelines), (wherever applicable)*	Graduate with a minimum of 3 years experience in Microsoft Azure Security Technologies or its equivalent.
3.	**Lead Assessor's/Proctor's Qualification and experience in relevant sector (in years)** *(as per NCVET guidelines)*	Educational Qualification: Diploma in Computers/ Electronics / Electrical Engg/ B.E/ B.Tech With a minimum of 3 years experience in Microsoft Azure Security Technologies or its equivalent.
4.	**Assessment Mode** *(Specify the assessment mode)*	Online Home/Office and at Registered Test Centers offline both options are available.
5.	**Tools and Equipment Required for Assessment**	☒ Same as for training ☐ Yes ☐ No *(details to be provided in Annexure-if it is different for Assessment)*

Section 4: Evidence of the Need for the Standalone NOS

Provide Annexure/Supporting documents name.

1.	Government /Industry initiatives/ requirement (Yes/No):Industry Initiative

2.	Number of Industry validation provided: NA
3.	Estimated number of people to be trained: Approx. 15,000 learners to be trained in the year 2025
4.	Evidence of Concurrence/Consultation with Line/State Departments (In case of regulated sectors): (Yes/No): *NA as per OEM Guidelines*

Section 5: Annexure & Supporting Documents Check List

Specify Annexure Name / Supporting document file name

1.	**Annexure:** NCrF/NSQF level justification based on NCrF/NSQF descriptors *(Mandatory)*	Annexure: Evidence of Level.
2.	**Annexure:** List of tools and equipment relevant for NOS *(Mandatory, except in case of online course)*	Annexure: Tools and Equipment
3.	**Annexure:** Performance and Assessment Criteria *(Mandatory)*	Annexure: Performance and Assessment Criteria
4.	**Annexure:** Assessment Strategy *(Mandatory)*	Annexure: Assessment Strategy
5.	**Annexure:** Blended Learning *(Mandatory, in case selected Mode of delivery is Blended Learning)*	Annexure: Blended Learning
6.	**Annexure:** Acronym and Glossary *(Optional)*	Annexure: Acronym and Glossary
7.	**Annexure/Supporting Document:** Standalone NOS-Performance Criteria Details Annexure/Document with PC-wise detailing as per NOS format (Mandatory- Public view)	Annexure: Standalone NOS Performance Criteria
8.	**Supporting Document:** Model Curriculum *(Mandatory – Public view)*	Model Curriculum – Microsoft Azure Security Technologies

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	An Azure Security Engineer implements security controls, manages identity and access, and protects data, applications, and networks in Azure environments. Their responsibilities include maintaining the security posture, identifying and remediating vulnerabilities, performing threat modeling, and implementing threat protection measures	AZ-500 certification equips professionals with advanced skills in implementing and managing security controls, maintaining an organization's security posture, and protecting data, applications, and networks in Azure environments. It validates their expertise in managing identity and access, implementing platform protection, and securing data and applications. This certification enhances career prospects by opening doors to roles such as Security Engineer, Security Consultant, or Cybersecurity Analyst.	6
Professional and Technical Skills/ Expertise/ Professional Knowledge	AZ-500 signifies a comprehensive skill set in managing security for Azure environments across diverse settings, including multi-cloud and hybrid infrastructures. Professionals with this certification excel in implementing security controls, managing identity and access, and protecting data, applications, and networks. They possess adept skills in threat	As an **Azure Security Engineer**, responsibilities typically include: • **Security Management**: Implementing and managing security controls to protect Azure resources. • **Identity and Access Management**: Managing Azure Active Directory identities and access controls to safeguard resources. • **Data Protection**: Implementing encryption, backup, and disaster recovery solutions to protect data	6

	modeling, vulnerability management, and incident response to swiftly address security issues and ensure robust protection measures	integrity and ensure business continuity. • **Threat Protection**: Performing threat modeling and implementing threat protection measures to identify and mitigate security risks. • **Incident Response**: Responding to security incidents and implementing measures to prevent future occurrences.	
Employment Readiness & Entrepreneurship Skills & Mind-set/Professional Skill	Certification validates expertise sought by employers for roles such as Security Engineer, Security Consultant, and Cybersecurity Analyst. Demonstrates proficiency in implementing and managing security controls, maintaining an organization's security posture, and protecting data, applications, and networks in Azure environments, enhancing credibility and trustworthiness among employers and peers	The **AZ-500 qualification** signifies proficiency in securing Azure environments through several key professional skills: • **Identity and Access Management**: Expertise in implementing and managing identity and access controls, including Azure Active Directory, to safeguard resources and prevent unauthorized access. • **Network Security**: Knowledge of Azure networking principles, including Virtual Networks (VNets) and Network Security Groups (NSGs), to secure network communications and mitigate threats.	6

		• **Data Protection**: Skills in implementing encryption, backup, and disaster recovery solutions to protect data integrity and ensure business continuity in Azure environments.	
Broad Learning Outcomes/Core Skill	The broad learning outcomes of AZ-500, focusing on advanced security management in Azure environments, include: • Proficiency in implementing robust security measures to protect data, applications, and networks within Azure environments. • Capability to design and implement strategic security solutions to meet organizational goals and requirements.	The responsible job roles of an Azure Security Engineer are: • **Managing Security Posture:** Implementing and managing security controls to protect Azure resources. • **Identifying and Remediating Vulnerabilities:** Performing threat modeling and vulnerability management to identify and mitigate security risks. • **Implementing Threat Protection:** Deploying and managing threat protection measures to safeguard data, applications, and networks. • **Managing Identity and Access:** Overseeing Azure Active Directory identities and access controls to ensure secure access to resources. • **Incident Response:** Responding to security incidents and implementing	6

		measures to prevent future occurrences	
Responsibility	Responsibilities of an Azure Security Engineer include: • Managing Security Posture • Identifying and Remediating Vulnerabilities • Implementing Threat Protection • Managing Identity and Access • Protecting Data • Incident Response • Collaboration	As an Azure Security Engineer, your responsibilities include implementing security controls to protect Azure resources, managing identity and access, and protecting data, applications, and networks. You perform threat modeling and vulnerability management to identify and mitigate security risks. You collaborate closely with Azure administrators, enterprise architects, developers, and security operations teams to ensure seamless integration, efficient operations, and optimal security across the Azure infrastructure.	6

Annexure: Tools and Equipment (lab set-up)

List of Tools and Equipment

Batch Size:NA, as it is on a Cloud-based lab

S. No.	Tool / Equipment Name	Specification	Quantity for specified Batch size
1	Computer with Internet	Windows 10 or 11 Pro /Enterprise	One per learner

2	LODS Key	Azure Labs	One per learner
3	Installed Browser	Latest Google Chrome/Microsoft Edge Browser	Installed on the computer of the learner
4	Internet	Stable internet connection with minimum 40 mbps speed	Internet access for the learners

Classroom Aids

The program is virtual classroom enabled.

The aids required to conduct sessions in the classroom / virtual are:

1. MS Teams (for virtual) with Wi-Fi Connectivity

2. Computer system (1 per learner), LODs key for performing Labs.

Annexure: Industry Validations Summary

Not Applicable - vide Guidelines for Creditisation of Skilling and Training Courses and Qualifications of MNCs and Leading Indian Enterprises

Annexure: Training Details

Training Projections:

Year	Estimated Training # of Total Candidates	Estimated training # of Women	Estimated training # of People with Disability

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

Annexure: Blended Learning

Blended Learning Estimated Ratio & Recommended Tools:

S. No.	Select the Components of the NOS	List Recommended Tools – for all Selected Components	Offline: Online Ratio
1	☒Theory/ Lectures - Imparting theoretical and conceptual knowledge	MS Learn Links of the course will be provided, Internet Connection, Computers	0:100
2	☒Imparting Soft Skills, Life Skills and Employability Skills /Mentorship to Learners		
3	☒Showing Practical Demonstrations to the learners	LODS Key is required, Computer, Internet Connection, Projector	30:70
4	☒Imparting Practical Hands-on Skills/ Lab Work/ workshop/ shop floor training	LODS Key is required, Computer, Internet Connection, Projector	30:70
5	☒Tutorials/ Assignments/ Drill/ Practice		
6	☒Proctored Monitoring/ Assessment/ Evaluation/ Examinations	Proctored Exam, Computer with good Camera, Microphone, Internet Connectivity and One Vue support	0:100
7	☐On the Job Training (OJT)/ Project Work Internship/ Candidate Training	MS Learn Links of the course will be provided, Internet Connection, Computers	0:100

Annexure: Standalone NOS- Performance Criteria details

1. Description:

This course aims to certify individuals as Microsoft Certified: Azure Security Engineer Associate. The qualification is designed to prepare professionals to implement security controls, manage identity and access, and protect data, applications, and networks in Azure environments. As an Azure Security Engineer, you will be responsible for maintaining the security posture, identifying and remediating vulnerabilities, performing threat modeling, implementing threat protection measures, and collaborating effectively with various IT professionals.

2. Scope:

The scope covers the following:

- Implementing security controls to protect Azure resources.
- Managing identity and access using Azure Active Directory.
- Protecting data through encryption, backup, and disaster recovery solutions.
- Performing threat modeling and implementing threat protection measures.
- Responding to security incidents and collaborating with security operations teams.

3. Elements and Performance Criteria

To be competent, the user/individual on the job must be able to:

1. **Manage Identity and Access** (8Hrs)
    - PC1: Manage Microsoft Entra identities
    - PC2: Manage Microsoft Entra authentication
    - PC3: Manage Microsoft Entra authorization
    - PC4: Manage Microsoft Entra application access
2. **Implement Platform Protection** (8Hrs)
    - PC1: Plan and implement security for virtual networks
    - PC2: Plan and implement security for private access to Azure resources
    - PC3: Plan and implement security for public access to Azure resources

3. **Secure Data and Applications** (8Hrs)
    - PC1: Plan and implement advanced security for compute
    - PC2: Plan and implement security for storage
    - PC3: Plan and implement security for Azure SQL Database and Azure SQL Managed Instance
4. **Manage Security Operations** (8Hrs)
    - PC1: Plan, implement, and manage governance for security
    - PC2: Manage security posture by using Microsoft Defender for Cloud
    - PC3: Configure and manage threat protection by using Microsoft Defender for Cloud
    - PC4: Configure and manage security monitoring and automation solutions

4. Knowledge and Understanding (KU):

The individual on the job needs to know and understand:

KU1: Azure Security Engineers are responsible for implementing security controls and managing identity and access in Azure environments.
KU2: They manage security for Azure resources, including virtual networks, storage, and applications.
KU3: They implement and manage security solutions such as identity management, threat protection, and data protection using Azure technologies.

5. Generic Skills (GS):

User/individual on the job needs to know how to:

GS1: Manage Identity and Access: Experience with managing Azure Active Directory identities and access controls.

GS2: Implement Network Security: Knowledge of Azure networking principles, including Virtual Networks (VNets) and Network Security Groups (NSGs).

GS3: Secure Data and Applications**:** Skills in implementing encryption, backup, and disaster recovery solutions to protect data integrity and ensure business continuity in Azure environments

Annexure: Assessment Criteria

Detailed PC-wise assessment criteria and assessment marks for the NOS are as follows:

S. No.	Assessment Criteria for Performance Criteria	Percentage
1.	Secure identity and access	(15-20%)
2.	Secure networking	(20-25%)
3.	Secure compute, storage, and databases	(20-25%)
4.	Secure Azure using Microsoft Defender for Cloud and Microsoft Sentinel	(30-35%)
Total Marks		**1000**

Note: Based on Release Changes the Percentages vary. MS Learn Links for the respective course will be able to provide the respective percentages. All technical exam scores are reported on a scale of 1 to 1,000. A passing score is 700 or greater. As this is a scaled score, it may not equal 70% of the points. A passing score is based on the knowledge and skills needed to demonstrate competence as well as the difficulty of the questions.

- Exam Duration and Number of Questions: 100 minutes to answer 40 to 60 questions
- Format of the questions: multiple-choice, true/false, drag and drop, list builds, and case studies.
- Delivery method: Pearson VUE center or online proctored exam.

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.

Assessment System Overview:

- As its Online Proctored exam. It's important to the test the computer with Good Camera, microphone, and internet connections.
- Need to check OnVUE software id working properly as firewall can block them.
- Need a valid Govt recognized id and a closed and quite room for taking up exam.

- Explore the exam sandbox to learn more about the exam UI and the different types of questions you may encounter. Before taking the exam.

2. Testing Environment:

- Candidates register for the exam and schedule a date and time for taking up the exam.
- Assessment agencies send the assessment confirmation to participants via email.
- Assessment agency deploys the Microsoft Certification on Power Platform Fundamentals on successful completion of the certificate.
- Multiple-choice, true/false, drag and drop, list builds, and case studies are given for assessment.

3. Assessment Quality Assurance levels/Framework:

- Question bank is created by the Subject Matter Experts (SME) are verified by the other SME
- Questions are mapped to the specified assessment criteria

4. Types of evidence or evidence-gathering protocol:

- Need a valid Govt identification card.

5. Method of verification or validation:

- Proctor can anytime ask you to rotate the system and cancel the exam if found suspicious.
- Sign into your Microsoft Learn profile. In the photo avatar drop-down menu, choose Profile and then choose Certifications inside the profile menu, to check the status of the exam

6. Method for assessment documentation, archiving, and access

- Sign into your Microsoft Learn profile. In the photo avatar drop-down menu, choose Profile and then choose Certifications inside the profile menu, to check the status of the exam

Annexure: Acronym and Glossary

Acronym

Acronym	Description
AA	Assessment Agency
AB	Awarding Body
NCrF	National Credit Framework
NOS	National Occupational Standard(s)

NQR	National Qualification Register
NSQF	National Skills Qualifications Framework

Glossary

Term	Description
National Occupational Standards (NOS)	NOS define the measurable performance outcomes required from an individual engaged in a particular task. They list down what an individual performing that task should know and also do.
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 on the basis of their main economic function, product, service or technology.