



## QUALIFICATION FILE – Micro Credentials

### AI to Acquire

Public  Private

Upskilling  Dual/Flexi Qualification  For ToT  For ToA

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

**NCrF/NSQF Level: 3**

**Submitted By:**

**IT-ITeS Sector Skills Council NASSCOM (SSC NASSCOM)**

**Plot No. – 7, 8, 9 & 10**

**Sector – 126, Noida, Uttar Pradesh - 201303**

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## Section 1: Basic Details

1.	<b>Micro Credential-Qualification Name</b>	<b>AI to Acquire</b>							
2.	<b>Sector/s</b>	<b>IT-ITeS</b>							
3.	<b>National Qualification Register (NQR) Code &amp; Version</b> <i>(Will be issued after NSQC approval.)</i>	<b>NM-03-IT-03873-2025-V1-NASSCOM</b>	<b>4. NCrF/NSQF Level:3</b>						
5.	<b>Brief Description of the Micro Credential</b>	This micro credential includes AI Basics like machine learning fundamentals, AI models introduction, Latest trends in AI, Introduction to programming, Fundamental concepts like NLP, Deep Learning, Neural networks Agentic AI, Edge AI, Emerging technologies, Ethical AI, Cybersecurity.							
6.	<b>Eligibility Criteria for Entry for Students/Trainee/Learner/Employee</b>	<p><b>a. Entry Qualification &amp; Relevant Experience</b></p> <table border="1" style="margin-left: 40px;"> <thead> <tr> <th style="text-align: center;">S. No.</th> <th style="text-align: center;">Academic/Skill Qualification (with specialization- if applicable)</th> <th style="text-align: center;">Relevant Experience (with specialization- if applicable)</th> </tr> </thead> <tbody> <tr> <td></td> <td>Completed AI Aware (NSQF Level 2)</td> <td></td> </tr> </tbody> </table> <p><b>b. Age &lt;16 years&gt;</b></p>		S. No.	Academic/Skill Qualification (with specialization- if applicable)	Relevant Experience (with specialization- if applicable)		Completed AI Aware (NSQF Level 2)	
S. No.	Academic/Skill Qualification (with specialization- if applicable)	Relevant Experience (with specialization- if applicable)							
	Completed AI Aware (NSQF Level 2)								
7.	<b>Credits Assigned to this Qualification, Subject to Assessment</b> <i>(as per National Credit Framework (NCrF))</i>	0.5	<b>8. Common Cost Norm Category (I/II/III)</b> <i>(wherever applicable): II</i>						
9.	<b>Any Licensing Requirements/ Pre-requisites for Undertaking Training</b> <i>(wherever applicable)</i>	NA							
10.	<b>Expected Outcomes of the Micro Credential</b>	<p><b>Terminal learning outcomes are:</b></p> <ul style="list-style-type: none"> <li>• AI Basics like machine learning fundamentals, and latest trends in AI</li> <li>• Fundamentals of programming</li> <li>• Fundamental concepts like NLP, Deep Learning, Neural networks Agentic AI, Edge AI</li> <li>• Emerging technologies</li> </ul>							

		<ul style="list-style-type: none"> <li>Ethical AI</li> <li>Cybersafety</li> </ul>												
11.	<b>Training Duration by Modes of Training Delivery</b> ( <i>Specify Total Duration as per selected training delivery modes and as per requirement of the qualification</i> )	<input type="checkbox"/> Offline Only <input checked="" type="checkbox"/> Online Only <input type="checkbox"/> Blended <table border="1"> <thead> <tr> <th>Training Delivery Mode</th> <th>Theory (Hours)</th> <th>Practical (Hours)</th> <th>Total (Hours)</th> </tr> </thead> <tbody> <tr> <td>Classroom (offline)</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Online</td> <td>10</td> <td>5</td> <td>15</td> </tr> </tbody> </table> <p>(Refer Blended Learning Annexure for Details)</p>	Training Delivery Mode	Theory (Hours)	Practical (Hours)	Total (Hours)	Classroom (offline)				Online	10	5	15
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12.	<b>Assessment Criteria</b>	<table border="1"> <thead> <tr> <th>Theory (Marks)</th> <th>Practical (Marks)</th> <th>Project (Marks)</th> <th>Viva (Marks)</th> <th>Total (Marks)</th> <th>Passing %age</th> </tr> </thead> <tbody> <tr> <td>70</td> <td>30</td> <td></td> <td></td> <td>100</td> <td></td> </tr> </tbody> </table>	Theory (Marks)	Practical (Marks)	Project (Marks)	Viva (Marks)	Total (Marks)	Passing %age	70	30			100	
Theory (Marks)	Practical (Marks)	Project (Marks)	Viva (Marks)	Total (Marks)	Passing %age									
70	30			100										
13.	<b>Is the Qualification Amenable to Persons with Disability</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If "Yes", <i>specify applicable type of Disability:</i> Hearing or Speech impairment, Locomotor Disability												
14.	<b>How participation of women will be encouraged?</b>	The Program is gender neutral although to increase women's participation, organizations are keeping aside a few seats to encourage female candidates.												
15.	<b>Other Indian Languages in which the Micro Credential will be implemented.</b>	Hindi												
16.	<b>Is similar Micro Credential Qualification(s) available on NQR-if yes, justification for this qualification</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No URLs of similar Qualifications:												
17.	<b>Name and Contact Details Submitting / Awarding Body SPOC</b>	Name: Namrata Kapur Email: standards@nasscom.in Contact No.: 0120-4990111 Website: <a href="https://nasscom.in">https://nasscom.in</a>												

18.	<b>NSQC Approval Date:11/04/2025</b>	19. <b>Validity Duration: 3 Years</b>	20. <b>Next Review Date: 11/04/2028</b>
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## Section 2: Training Related

1.	<b>Trainer's Qualification and experience in relevant sector (in years)</b> <i>(as per requirement and NCVET guidelines)</i>	NA
2.	<b>Master Trainer's Qualification and experience in relevant sector (in years)</b> <i>(as per requirement and NCVET guidelines)</i>	NA
3.	<b>Tools and Equipment Required for Training</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If "Yes", details to be provided in Annexure)</i>

## Section 3: Assessment Related

1.	<b>Assessor's Qualification and experience in relevant sector (in years)</b> <i>(as per requirement and NCVET guidelines)</i>	NA
2.	<b>Proctor's Qualification and experience in relevant sector (in years)</b> <i>(as per requirement and NCVET guidelines)</i>	NA
3.	<b>Lead Assessor's/Proctor's Qualification and experience in relevant sector (in years)</b> <i>(as per requirement and NCVET guidelines)</i>	NA
4.	<b>Assessment Mode</b> <i>(Specify the assessment mode)</i>	<b>Mode:</b> <input checked="" type="checkbox"/> Online Only <input type="checkbox"/> Offline Only <input type="checkbox"/> Blended
5.	<b>Tools and Equipment Required for Assessment</b>	<input checked="" type="checkbox"/> Same as for training <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(details to be provided in Annexure-if it is different for Assessment)</i>

## Section 4: Evidence of Need of the Micro Credential

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

1.	Government /Industry initiatives/ requirement (Yes/No):Yes
2.	Number of Industry validation provided: <i>NA</i>
3.	Estimated number of people to be trained: <i>&lt;Specify details in annexure&gt;</i>

## Section 5: Annexure Check List

*Specify Annexure Number and Name.*

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

## 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
<b>Professional Theoretical Knowledge/Process</b>	Understanding AI fundamentals, types, applications, emerging trends, cybersecurity threats, and ethical AI considerations.	Provides foundational knowledge of AI and cybersecurity, ensuring theoretical clarity for learners at NSQF Level 4.	Level 3
<b>Professional and Technical Skills/ Expertise/ Professional Knowledge</b>	Ability to apply Python programming for AI, work with machine learning frameworks, and analyze cybersecurity risks.	Equips learners with technical competencies needed for AI and cybersecurity-related roles.	Level 3
<b>Employment Readiness &amp; Entrepreneurship Skills &amp; Mind-set/Professional Skill</b>	Awareness of AI-driven industries, cybersecurity job roles, and entrepreneurship opportunities in AI and security domains.	Enhances job readiness by imparting knowledge relevant to industry demands.	Level 3

<b>Broad Learning Outcomes/Core Skill</b>	Problem-solving, ethical decision-making, critical thinking, and technical adaptability in AI and cybersecurity applications.	Develops a professional mindset necessary for AI and cybersecurity fields.	Level 3
<b>Responsibility</b>	Ability to work with AI tools, recognize ethical implications, and implement cybersecurity best practices.	Aligns with the core skills required for AI and cybersecurity awareness and application.	Level 3

### Annexure: Learning Outcomes and Assessment Criteria

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

S. No.	Learning Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
1.	Differentiates between human intelligence and artificial intelligence	5			
2.	Identifies and describe basic types of AI and techniques	5			
3.	Understand Machine Learning Fundamentals	10			
4.	Understanding of basic Programming concepts	5	10		
5.	Understand concepts of NLP and its applications	5	2.5		
6.	Identify and describe advanced AI concepts like Deep Learning, Neural Networks, and Agentic AI	10	2.5		
7.	Recognizes the roles of Edge AI and Large Language Models (LLMs) in modern technology	5			

<b>8.</b>	Identify and describe the role of emerging technologies (IoT, Cloud, Robotics) in AI advancements.	10			
<b>9.</b>	Explains the concept of privacy, responsible AI and why protecting personal information is important.	5	5		
<b>10.</b>	Describes basic ways to stay safe and protect privacy while using AI tools	5	5		
<b>11.</b>	Practice usage of Safe Online Habits, Digital Footprints	5	5		
<b>Total Marks</b>		<b>70</b>	<b>30</b>		

### Annexure: Assessment Strategy

*Specify the assessment strategy and plan to evaluate the Candidate on the required competencies of the qualification.*

*Proctored online assessments with case study based MCQ's.*

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### Annexure: Tools and Equipment

#### **List of Tools and Equipment**

##### **Batch Size:**

<b>S. No.</b>	<b>Tool / Equipment Name</b>	<b>Specification</b>	<b>Quantity for specified Batch size</b>
	<ul style="list-style-type: none"> <li>Computers/Laptops (Basic configuration)</li> </ul>		

	<ul style="list-style-type: none"> <li>• Projector/Interactive Display (For demonstrations)</li> <li>• Internet Connection</li> </ul>		
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**Classroom Aids:**

The aids required to conduct sessions in the classroom are:

- 1.
- 2.

### Annexure: Industry Validations Summary

S. No	Organization Name	Representative Name	Designation	Contact Address	Contact Phone No	E-mail ID	LinkedIn Profile (if available)

### 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:**

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

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

S. No.	Select the Components of the Qualification	List Recommended Tools – for all Selected Components	Offline: Online Ratio
1	<input type="checkbox"/> Theory/ Lectures - Imparting theoretical and conceptual knowledge	NA	
2	<input type="checkbox"/> Imparting Soft Skills, Life Skills and Employability Skills /Mentorship to Learners	NA	
3	<input type="checkbox"/> Showing Practical Demonstrations to the learners	NA	
4	<input type="checkbox"/> Imparting Practical Hands-on Skills/ Lab Work/ workshop/ shop floor training	NA	
5	<input type="checkbox"/> Tutorials/ Assignments/ Drill/ Practice	NA	
6	<input type="checkbox"/> Proctored Monitoring/ Assessment/ Evaluation/ Examinations	NA	
7	<input type="checkbox"/> On the Job Training (OJT)/ Project Work Internship	NA	

### Annexure: Acronym and Glossary

#### Acronym

Acronym	Description
AA	Assessment Agency
AB	Awarding Body
ISCO	International Standard Classification of Occupations
NCO	National Classification of Occupations
NCrF	National Credit Framework
NQR	National Qualification Register
NSQF	National Skills Qualifications Framework
OJT	On the Job Training

*Glossary*

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