



QUALIFICATION FILE

Web Developer

☒ 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 ☐ OEM

NCrF/NSQF Level: 4.0

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.	Qualification Name	Web Developer													
2.	Sector/s	IT/ITeS													
3.	Type of Qualification: ☐ New ☒ Revised ☐ Has Electives/Options ☐ OEM	NQR Code & version of existing/previous qualification: 2022/ITES/ITSSC/05250, v3.0	Qualification Name of existing/previous version: Web Developer												
4.	a. OEM Name b. Qualification Name (Wherever applicable)	NA Web Developer													
5.	National Qualification Register (NQR) Code &Version (Will be issued after NSQC approval)	QG-04-IT-03650-2025-V2-NASSCOM & v4.0	6. NCrf/NSQF Level: 4												
7.	Award (Certificate/Diploma/Advance Diploma/ Any Other (Wherever applicable specify multiple entry/exits also & provide details in annexure)	Certificate													
8.	Brief Description of the Qualification	A Web Developer is responsible for designing, developing, and maintaining web-based applications that incorporate both static and dynamic content. This involves creating user-friendly layouts, coding functional interfaces, and ensuring seamless website performance. They collaborate with application or functional developers to integrate web components into larger solutions or work independently on standalone projects. Their role ensures that websites meet technical requirements and provide superior user experience.													
9.	Eligibility Criteria for Entry for Student/Trainee/Learner/Employee	a. Entry Qualification & Relevant Experience: <table border="1"> <thead> <tr> <th>S. No.</th> <th>Academic/Skill Qualification (with Specialization - if applicable)</th> <th>Required Experience (with Specialization - if applicable)</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>12th Grade* Pass</td> <td></td> </tr> <tr> <td>2.</td> <td>10th Grade Pass</td> <td>3-year relevant experience**</td> </tr> <tr> <td>3.</td> <td>Previous Relevant qualification of NSQF level 3</td> <td>3-year relevant experience**</td> </tr> </tbody> </table> *With Computer Knowledge **Relevant field: Experience in Programming languages (Such as HTML, CSS, Javascript, etc.) The relevant experience would include work, internship, and apprenticeship after completing relevant educational qualifications. Age:		S. No.	Academic/Skill Qualification (with Specialization - if applicable)	Required Experience (with Specialization - if applicable)	1.	12th Grade* Pass		2.	10th Grade Pass	3-year relevant experience**	3.	Previous Relevant qualification of NSQF level 3	3-year relevant experience**
S. No.	Academic/Skill Qualification (with Specialization - if applicable)	Required Experience (with Specialization - if applicable)													
1.	12th Grade* Pass														
2.	10th Grade Pass	3-year relevant experience**													
3.	Previous Relevant qualification of NSQF level 3	3-year relevant experience**													

10.	Credits Assigned to this Qualification, Subject to Assessment (as per National Credit Framework (NCrF))	12	11. Common Cost Norm Category (I/II/III) (wherever applicable): II																					
12.	Any Licensing requirements for Undertaking Training on This Qualification (wherever applicable)	NA																						
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 <table border="1"> <thead> <tr> <th>Training Delivery Modes</th><th>Theory (Hours)</th><th>Practical (Hours)</th><th>OJT Mandatory (Hours)</th><th>OJT Recommended (Hours)</th><th>Total (Hours)</th></tr> </thead> <tbody> <tr> <td>Classroom (offline)</td><td>120</td><td>180</td><td>60</td><td></td><td>360</td></tr> <tr> <td>Online</td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table> (Refer Blended Learning Annexure for details)					Training Delivery Modes	Theory (Hours)	Practical (Hours)	OJT Mandatory (Hours)	OJT Recommended (Hours)	Total (Hours)	Classroom (offline)	120	180	60		360	Online					
Training Delivery Modes	Theory (Hours)	Practical (Hours)	OJT Mandatory (Hours)	OJT Recommended (Hours)	Total (Hours)																			
Classroom (offline)	120	180	60		360																			
Online																								
14.	Aligned to NCO/ISCO Code/s (if no code is available mention the same)	NCO-2015/2513.0101																						
15.	Progression path after attaining the qualification (Please show Professional and Academic progression)	This entry should refer to one or more of the following: Professional progression: access to related qualification(s) at the next NSQF level: Sr. Web developer																						
16.	Other Indian languages in which the Qualification & Model Curriculum are being submitted	Hindi																						
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 applicable type of Disability: Visual, Hearing or Speech impairment, Locomotor Disability																						
19.	How Participation of Women will be Encouraged	To encourage women to participate Web Development job roles, it is important to provide education, mentorship, and networking opportunities, as well as training and development programs. Flexible work arrangements and promoting successful women in Web Development job roles can also inspire and encourage women to pursue careers in this field. Creating a culture of inclusion and diversity can help women feel welcome and valued in Web Development job roles, through policies and practices that support work-life balance, equal pay and promotion opportunities, and a safe and respectful workplace.																						
20.	Are Greening/ Environment Sustainability Aspects Covered (Specify the NOS/Module which covers it)	☒ Yes ☒ No (Covered in DGT/VSQ/N0102)																						
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: Namrata Kapur Email: standards@nasscom.in Website: https://nasscom.in	Contact No.: 0120-4990111
23.	Final Approval Date by NSQC: 18-02-2025	24. Validity Duration: 3 Years	25. Next Review Date: 18-02-2028

Section 2: Module Summary

NOS/s of Qualifications

(In exceptional cases these could be described as components)

Mandatory NOS/s:

Specify the training duration and assessment criteria at NOS/ Module level. For further details refer curriculum document.

Th.-Theory Pr.-Practical OJT-On the Job Training Man.-Mandatory Rec.-Recommended Proj.-Project

S. No	NOS/Module Name	NOS/Module Code & Version (if applicable)	Core/ Non-Core	NCrF/NS QF Level	Credits as per NCrF	Training Duration (Hours)					Assessment Marks					
						Th.	Pr.	OJT-Man.	OJT-Rec.	Total	Th.	Pr.	Proj.	Viva	Total	Weightage (%) (if applicable)
1.	Contribute to the design of software products and applications	SSC/N0501, v3.0	Core	4.0	4	30	60	30	-	120	30	50	-	20	100	45
2.	Develop Media Content and Graphics for Software Products and Applications	SSC/N0503, v3.0	Core	4.0	7	60	120	30	-	210	30	50	-	20	100	45
3.	Employability Skills (30 Hours)	DGT/VSQ/N 0101, v1.0	Non-Core	4.0	1	30	-	-	-	30	20	30	-	-	50	10
Duration (in Hours) / Total Marks					12	120	180	60		360	80	130	-	40	250	100

Assessment - Minimum Qualifying Percentage

Please specify **any one** of the following:

Minimum Pass Percentage – Aggregate at qualification level: 70 % (Every Trainee should score specified minimum aggregate passing percentage at qualification level to successfully clear the assessment.)

Section 3: Training Related

1.	Trainer's Qualification and experience in the relevant sector (in years) <i>(as per NCVET guidelines)</i>	Educational Qualification: Graduate in any discipline Industry & Training Experience: 2 years of industry experience in Programing languages (Such as HTML, CSS, JavaScript etc.) Certification: "Trainer" mapped to the Qualification Pack "MEP/Q2601" Minimum accepted score is 80% aggregate.
2.	Master Trainer's Qualification and experience in the relevant sector (in years) <i>(as per NCVET guidelines)</i>	Educational Qualification: Graduate in any discipline Industry & Training Experience: 4 years of industry experience in Programing languages (Such as HTML, CSS, JavaScript etc.) Certification: "Master Trainer" mapped to the Qualification Pack "MEP/Q2602" Minimum accepted score is 90% aggregate.
3.	Tools and Equipment Required for Training	☒ Yes ☐ No <i>(If "Yes", details to be provided in Annexure)</i>
4.	In Case of Revised Qualification, Details of Any Upskilling Required for Trainer	NA

Section 4: Assessment Related

1.	Assessor's Qualification and experience in relevant sector (in years) <i>(as per NCVET guidelines)</i>	Educational Qualification: Graduate in any discipline Industry & Training Experience: 2 years of industry experience in Programing languages (Such as HTML, CSS, JavaScript etc.) Certification: "Assessor" mapped to the Qualification Pack "MEP/Q2701" Minimum accepted score is 80% aggregate.
2.	Proctor's Qualification and experience in relevant sector (in years) <i>(as per NCVET guidelines)</i>	Educational Qualification: Graduate in any discipline Industry & Training Experience: 2 years of industry experience in Programing languages (Such as HTML, CSS, JavaScript etc.) Certification: "Assessor" mapped to the Qualification Pack "MEP/Q2701" Minimum accepted score is 80% aggregate.
3.	Lead Assessor's/Proctor's Qualification and experience in relevant sector (in years) <i>(as per NCVET guidelines)</i>	Educational Qualification: Graduate in any discipline Industry & Training Experience: 4 years of industry experience in Programing languages (Such as HTML, CSS, JavaScript etc.)

		Certification: “Lead Assessor” mapped to the Qualification Pack “MEP/Q2702” Minimum accepted score is 90% aggregate.
4.	Assessment Mode (<i>Specify the assessment mode</i>)	The assessment shall be conducted through an online proctored format, incorporating scenario-based multiple-choice questions designed to effectively evaluate practical understanding and real-world application of concepts. Additionally, it will include a viva-voice and hands-on practical evaluation to comprehensively assess the individual's proficiency in specific learning outcomes.
5.	Tools and Equipment Required for Assessment	☒ Same as for training ☐ Yes ☐ No (<i>details to be provided in Annexure-if it is different for Assessment</i>)

Section 5: Evidence of the need for the Qualification

Provide Annexure/Supporting documents name.

1.	Latest Skill Gap Study (not older than 2 years) (Yes/No): Yes
2.	Latest Market Research Reports or any other source (not older than 2 years) (Yes/No): NA
3.	Government /Industry initiatives/ requirement (Yes/No): NA
4.	Number of Industry validation provided: 30
5.	Estimated nos. of persons to be trained and employed: 1000
6.	Evidence of Concurrence/Consultation with Line Ministry/State Departments: <i>In Process</i> If “No”, why:

Section 6: Annexure & Supporting Documents Check List

Specify Annexure Name / Supporting document file name

1.	Annexure: NCrf/NSQF level justification based on NCrf level/NSQF descriptors (<i>Mandatory</i>)	<i>Annexure 1</i>
2.	Annexure: List of tools and equipment relevant for qualification (<i>Mandatory, except in case of online course</i>)	<i>Annexure 2</i>
3.	Annexure: Detailed Assessment Criteria (<i>Mandatory</i>)	<i>Annexure 6</i>
4.	Annexure: Assessment Strategy (<i>Mandatory</i>)	<i>Annexure 7</i>
5.	Annexure: Blended Learning (<i>Mandatory, in case selected Mode of delivery is “Blended Learning”</i>)	NA
6.	Annexure: Multiple Entry-Exit Details (<i>Mandatory, in case qualification has multiple Entry-Exit</i>)	NA

7.	Annexure: Acronym and Glossary (<i>Optional</i>)	<i>Annexure 8</i>
8.	Supporting Document: Model Curriculum (<i>Mandatory – Public view</i>)	<i>Attached</i>
9.	Supporting Document: Career Progression (<i>Mandatory - Public view</i>)	<i>Attached</i>
10.	Supporting Document: Occupational Map (<i>Mandatory</i>)	<i>Attached</i>
11.	Supporting Document: Assessment SOP (<i>Mandatory</i>)	<i>Attached</i>
12.	Any other document you wish to submit:	<i>NO</i>

Annexure 1: 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	Develop and Maintain Websites - Understand web development frameworks, HTML, CSS, and JavaScript for front-end development. - Learn back-end technologies, including server-side scripting languages like PHP, Python, or Node.js, and databases like MySQL or MongoDB. - Explore content management systems (CMS) such as WordPress or Drupal. - Optimize websites for responsiveness, speed, and cross-browser compatibility. Implement Web Design Principles - Apply design concepts like UX/UI, typography, and color theory to create visually appealing and user-friendly websites. - Develop wireframes and prototypes to outline website structure and functionality. Ensure Website Security and Maintenance - Identify and mitigate common cybersecurity vulnerabilities, including SQL injection, XSS, and CSRF. - Implement SSL certificates and secure authentication mechanisms.	The role of a Web Developer involves designing, building, and maintaining websites and web applications. This includes developing user interfaces, ensuring responsive design, managing databases, and integrating advanced features using APIs. Web Developers follow systematic processes involving design, coding, testing, debugging, and deployment, ensuring websites meet technical and business requirements. They also stay updated on emerging web technologies and trends to create optimized, secure, and engaging digital solutions. The work combines creative problem-solving with technical implementation, requiring adherence to coding standards, best practices, and organizational guidelines.	4.0

	- Regularly update and maintain websites to ensure optimal performance and security. Utilize Version Control and Collaboration Tools - Use Git for version control to track and manage code changes. - Collaborate with team members using platforms like GitHub, GitLab, or Bitbucket. Integrate Advanced Features - Incorporate APIs for third-party integrations, such as payment gateways or social media platforms. - Utilize AI-powered tools like chatbots for enhanced user interaction.		
Professional and Technical Skills/ Expertise/ Professional Knowledge	- Proficiency in front-end technologies such as HTML5, CSS3, JavaScript, and frameworks like React or Angular. - Expertise in back-end development using technologies like Node.js, Django, or Laravel. - Knowledge of database management and optimization using SQL and NoSQL databases. - Familiarity with responsive and adaptive web design principles. - Understanding cybersecurity best practices for website protection. - Competence in using version control systems (e.g., Git) and collaboration tools. - Ability to debug and troubleshoot website errors efficiently. - Experience with performance optimization techniques, including caching and image compression. - Knowledge of emerging technologies like AI, ML, and cloud-based services for advanced web functionalities.	Web Developers require technical expertise in both front-end and back-end technologies, such as HTML, CSS, JavaScript, Python, Node.js, or PHP. Knowledge of databases, version control systems like Git, and frameworks like React or Angular are essential. They must understand design principles (UX/UI), performance optimization, and cybersecurity practices to protect websites from threats. Familiarity with generative AI tools, APIs, and cloud-based services enhances their ability to create scalable, efficient, and user-friendly web applications. Web Developers are skilled in analyzing user needs, debugging errors, and ensuring compatibility across devices and platforms.	4.0
Employment Readiness & Entrepreneurship Skills & Mindset/Professional Skill	- Develop user-centric websites that align with client requirements and business objectives. - Communicate technical aspects of projects to clients and team members effectively. - Manage time efficiently to meet deadlines for web development projects. - Stay updated with emerging web development trends and technologies.	Web Developers demonstrate the ability to manage projects efficiently, communicate technical concepts to clients and team members, and adapt to evolving technologies. They excel in solving complex coding challenges, meeting deadlines, and collaborating with designers and developers to deliver innovative solutions. Their entrepreneurial mindset enables them to identify opportunities for improving user experience and implementing cutting-edge features. By leveraging AI tools and advanced frameworks,	4.0

	- Collaborate with designers, content creators, and other developers to ensure project success. - Adapt to new tools and technologies to improve the functionality and efficiency of web projects. - Apply problem-solving skills to overcome development challenges and improve user experience.	Web Developers enhance the functionality of websites, ensuring they meet business objectives and customer expectations.	
Broad Learning Outcomes/Core Skill	- Master the skills to design, develop, and deploy professional-grade websites for various platforms and industries. - Build a strong understanding of web development tools, frameworks, and techniques. - Learn to implement the best practices for cybersecurity, ensuring websites are secure and reliable. - Gain experience in troubleshooting and optimizing websites for performance and scalability. - Understand the business aspects of web development, including client management and project cost estimation. - Stay updated on industry trends and advancements to deliver innovative web solutions.	A Web Developer builds expertise in creating and managing websites that align with business goals. They develop core competencies in coding, database management, and integrating modern technologies like AI and APIs. The role emphasizes understanding cybersecurity and data protection standards, ensuring websites are secure and reliable. Through hands-on experience, Web Developers gain the ability to troubleshoot issues, optimize performance, and adapt to new trends. These skills enable them to deliver engaging and high-performing web solutions, contributing to organizational success and personal career growth.	4.0
Responsibility	The individual in this job role will be responsible for the below-mentioned activities: - Understanding Business and Software Requirements - Designing Basic Programming Structures - Documentation and Compliance - UI/UX Design Principles - Responsive and Adaptive Design - Front-End Development - Back-End Development - Version Control and Deployment - Web Performance Optimization - Testing and Debugging - Generative AI - Media Content and Graphic Design Development - Responsive Web Design - Web Accessibility Standards	A Web Developer is responsible for designing, developing, and maintaining web-based applications that incorporate both static and dynamic content. This involves creating user-friendly layouts, coding functional interfaces, and ensuring seamless website performance. They collaborate with application or functional developers to integrate web components into larger solutions or work independently on standalone projects. Their role ensures that websites meet technical requirements and provide superior user experience.	4.0

	• Dynamic Content Integration • Review and Feedback Process • Documentation and Knowledge Sharing • Compliance and Approval		
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Annexure 2: Tools and Equipment (Lab Set-Up)

List of Tools and Equipment

Batch Size: 30

S. No.	Tool / Equipment Name	Specification	Quantity for specified Batch size
1.	Project Management Tools (e.g. Trello,	Nos	1
2.	CI/CD Tools (e.g. Docker	Nos	1
3.	Designing Tools	Nos	1
4.	UI/UX design and prototyping tools (e.g. GitHub, etc.)	Nos	1
5.	Database Management Systems (e.g. MySQL	Nos	1

Classroom Aids

The aids required to conduct sessions in the classroom are:

1. Whiteboard
2. Projector
3. Computer/Laptop with Internet
4. Chairs
5. Tables
6. Whiteboard marker
7. Duster

Annexure 3: Industry Validations Summary

Provide the summary information of all the industry validations in table. This is not required for OEM qualifications.

S. No	Organization Name	Representative Name	Designation	Contact Address	Contact Phone No	E-mail ID	LinkedIn Profile (if available)
1.	Dell Technologies	Ariba Syed	Software Engineer	Surat		ariba.syed2017@gmail.com	

2.	PwC	Yatharth Bhatnagar	Software Engineer	Pune	7276325777	yatharth23@gmail.com	
3.	Siemens Digital Industries Software	Snehal Pandey	Software Engineer	Pune	7387151993	snehalpande93@gmail.com	
4.	Protiviti Global Business Consulting	Sakshi Samtani	Senior Manager	Mumbai	8080536463	sakshi3192@gmail.com	
5.	Michelin India Private Ltd.	Himanshu Sharma	Business Analyst/Product Owner	Kharadi, Pune		sharmaaz.himanshu@gmail.com	
6.	Capgemini	Shruti Gupta	Manager	Chennai, Tamil Nadu, India	9004343572	shrutivijendra@gmail.com	
7.	Deloitte Support Services Private Limited	Shreya Sharma	Senior Analyst (PMO)	Hyderabad Deloitte Towers, MindSpace Road, P Janardhan Reddy Nagar, Gachibowli, Hyderabad, Telangana 500032	8999530108	shrevasharma5@deloitte.com	
8.	HCL Tech	Sheeloo Sachan	Technical Specialist	Plot No 3A, Sector 126, Noida, Uttar Pradesh 201301	9717036547	sachan.sheeloo@gmail.com	
9.	T-Systems ICT India Pvt Ltd	Monica Sharma	Sr. Consultant	Panchshil business park, Balewadi High St, Laxman Nagar, Baner, Pune, Maharashtra 411045	7389777739	monica.sharma@t-systems.com	
10.	Nasdaq Inc	Alfiya Khan	Software Engineer	Unit 201 and 203, Akruti Center Point, MIDC Road, Andheri (East) Mumbai: 400-093, India.	8109690056	alfiya.Khan@Nasdaq.com	
11.	Infosys Ltd	Shraddha Sethiya	Technology Analyst	No. 44 & 97/A, Infosys Avenue, Next SBI Bank, Hosur Road, Electronic City-Bengaluru 560100, Karnataka, India	99267854201	shraddha.sethiya@infosys.com	
12.	Globant	Rishi Kumar	Analytics	Wing A & B, Level 5, Tower IV, Cybercity, Magarpatta City,	9717036547	rishi.kumar@globant.com	

				Hadapsar, Pune – 411 013, Pune			
13.	Temenos India Pvt Ltd	Yash Kumawat	Senior product engineer	Bengaluru	8319749784	yash120997@gmail.com	
14.	PWC	Ruchita Panchal	Senior Consultant	Gurgaon	7354047944	ruchita.panchal@pwc@gmail.com	
15.	Sopra Steria India	Rikan Singh	Team Leader	Plot No. 20 & 21, Seaview Special Economic Zone, Building 4, Sector 135, Noida, Uttar Pradesh 201304	9899507967	rikan.singh@soprasteria.com	
16.	Sycamore Informatics	Rahul Kumar Kaushik	Product Manager	No. 6, 2nd Floor, 2nd Main, Arekere, Off Bannerghatta Road, Bangalore 560076	8859885973	rahul.kaushik@sycamoreinformatics.com	
17.	Movate	Rohit Kumar Sharma	Manager – Development	A-21, sector 4, Block A, Kailash Colony, Greater Kailash, New Delhi,	9927564461	rohit.sharma.movate@gopangea.com	
18.	GlobalLogic	Rashid Muhammad	Associate Manager	Oxygen Business Park SEZ, Tower, 3, Noida-Greater Noida	8881474420	rashid.muhammad@globallogic.com	
19.	Reckitt Benckiser	Sachin Sharma	Demand Manager	Udyog Vihar, Phase V, Gurgaon, Haryana	9758573077	sachin.Sharma@rb.com	
20.	TCS	Ankit Garg	Assistant Consultant	Skyview Corporate Park, Gurgaon - Delhi Expy, Sector 74A, Gurugram, Haryana 122004	9808254808	ankit.garg8@tcs.com	
21.	Getronics Solutions	Devender Prasad	Team Lead – Quality & Performance	6th Floor, Magnum Tower 1, above Axis Bank, Sector 58, Gurugram, Haryana 122008	9711592810	devprasad83@gmail.com	
22.	Nagarro	Firoz Zaidi	Senior Developer	Block A, Sector 64, Noida, Uttar Pradesh 201301, India	8218191014	firoz@nagarro.com	
23.	KPMG	Vaishali Tomar	Associate Consultant	Block A, 100 Feet Rd, Embassy Golf Link Business Park,	9479421477	vaishalitomar@kpmg.com	

				Koramangala, Bengaluru, Karnataka- 560071			
24.	Ecom Express.in	Shekhar Poswal	Senior QA L1	10 th Floor, Ambience Corporate Tower II, Ambience Island, Gurugram 122001	8588820616	Shekhar.p@ecomexpress.in	
25.	Ivy Comptech Hyderabad	Sakshi Tomar	Analyst Test Engineering	Survey No.13, DIVYA SREE OMEGA, 5th & 6th Floor, "B, Plot No 13/E, part, Kondapur, Hyderabad, Telangana 500084	9599621311	Sakshi.Tomar@ivycomptech.com	
26.	FIS Global Business Solution	Mangal Deep Patel	Sr. Software Developer	B-402, I Park, Plot No. 15, Phase IV, Gurugram, Haryana 122016	9718146851	Mangal.deeppatel@fisglobal.com	
27.	Tecnova India	Happy Sharma	Senior Manager	412, Nimai Tower, Phase IV, Sector 18, Gurgaon - 122015	9821179301	Happy.sharma@tecnovaglobal.com	
28.	Conduent	Prince Jain	Sr. Business Analyst	Plot No. 20, Candor Tech Space, Noida 201304	9013241797	Prince.jain@conduent.com	
29.	Senryaku Management	Udit Kaushik	Co-founder	UTC031, DLF The Ultima, Sector 81, Gurugram 122004	9690909024	Udit.kau@gmail.com	
30.	Tata Consultancy Services	Sheepra Kaushik	Associate Consultant	Hiranandani SEZ, Powai, Mumbai 400076	8433595090	Sheepra.sharma@tcs.com	

Annexure 4: Training & Employment Details

Training and Employment Projections:

Year	Total Candidates	Women	People with Disability
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	Estimated Training #	Estimated Employment Opportunities	Estimated Training #	Estimated Employment Opportunities	Estimated Training #	Estimated Employment Opportunities
2024	200	75	10	5	5	5
2025	300	100	15	10	10	10
2026	500	200	25	10	10	10

Data to be provided year-wise for next 3 years

Training, Assessment, Certification, and Placement Data for previous versions of qualifications:

Qualification Version	Year	Total Candidates				Women				People with Disability			
		Trained	Assessed	Certified	Placed	Trained	Assessed	Certified	Placed	Trained	Assessed	Certified	Placed
v2.0	2024												
v2.0	2023												
v2.0	2022												

Applicable for revised qualifications only, data to be provided year-wise for past 3 years.

List Schemes in which the previous version of Qualification was implemented:

1.
2.

Content availability for previous versions of qualifications:

☒ Participant Handbook ☒ Facilitator Guide ☐ Digital Content ☐ Qualification Handbook ☐ Any Other:

Languages in which Content is available: Hindi

Annexure 5: Blended Learning

Blended Learning Estimated Ratio & Recommended Tools:

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

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

S. No.	Select the Components of the Qualification	List Recommended Tools – for all Selected Components	Offline: Online Ratio
1	☒ Theory/ Lectures - Imparting theoretical and conceptual knowledge	- Books/ e-books - Presentations - Reference Material - Audio / Video Modules	
2	☒ Imparting Soft Skills, Life Skills, and Employability Skills /Mentorship to Learners		
3	☒ Showing Practical Demonstrations to the learners		
4	☒ Imparting Practical Hands-on Skills/ Lab Work/ workshop/ shop floor training	- Training tools (tools list attached) - Video Play - Presentations	
5	☒ Tutorials/ Assignments/ Drill/ Practice	- Online Question Bank - MCQ based tests	
6	☒ Proctored Monitoring/ Assessment/ Evaluation/ Examinations		
7	☒ On the Job Training (OJT)/ Project Work Internship/ Apprenticeship Training		

Annexure 6: Detailed Assessment Criteria

Detailed assessment criteria for each NOS/Module are as follows:

Procter online assessment and case study base questions are included.

NOS/Module Name	Assessment Criteria for Performance Criteria/Learning Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
SSC/N0501: Contribute to the design of software products and applications	<i>Understanding Business and Software Requirements</i>	2	4	-	1
	PC1. collaborate with project stakeholders to fully comprehend Business Requirements Specification (BRS), User Requirements Specification (URS), and Software Requirements Specification (SRS)	1	2	-	0.5
	PC2. ensure the understanding of High-Level Design (HLD) concept by consulting with relevant stakeholder	1	2	-	0.5
	<i>Designing Basic Programming Structures</i>	4	6	-	3

PC3.	design basic programming structures to implement functionality in line with BRS/URS, SRS, and HLD	1.5	2	-	1
PC4.	conduct design review meetings with industry experts and senior developers to validate the design against industry standards and best practices	1	2	-	1
PC5.	analyze the inputs to identify, resolve, and record design defects and inform future designs	1.5	2	-	1
<i>Documentation and Compliance</i>		2	2	-	1
PC6.	document the details of designs using standard templates and tools (e.g., UML diagrams, wireframes)	1	1	-	0.5
PC7.	comply with organizational policies, procedures, and guidelines when contributing to the design of software products and applications	1	1	-	0.5
<i>UI/UX Design Principles</i>		4	5	-	2
PC8.	apply user-centric design principles by developing wireframes, prototypes, and mockups that meet user expectations	2	2.5	-	1
PC9.	ensure all designs are compliant with accessibility standards, including WCAG (Web Content Accessibility Guidelines)	2	2.5	-	1
<i>Responsive and Adaptive Design</i>		3	5	-	2
PC10.	test web applications for cross-browser compatibility to ensure consistent functionality and appearance across different browsers and platforms	1.5	2.5	-	1
PC11.	apply mobile-first and responsive design practices using frameworks like Bootstrap	1.5	2.5	-	1
<i>Front-End Development</i>		1	3	-	1
PC12.	develop front-end functionality using technologies such as HTML5, CSS3, JavaScript, and frameworks like React or Angular	1	3	-	1
<i>Back-End Development</i>		3	6	-	2
PC13.	integrate with databases (e.g., MySQL, MongoDB) to support back-end functionality	1.5	3	-	1
PC14.	apply server-side programming with languages like Node.js, PHP, or Python.	1.5	3	-	1
<i>Version Control and Deployment</i>		3	5	-	2
PC15.	use Git for version control to manage code and collaboration	1.5	2.5	-	1
PC16.	implement Continuous Integration/Continuous Deployment (CI/CD) pipelines for smooth deployment	1.5	2.5	-	1
<i>Web Performance Optimization</i>		3	5	-	2
PC17.	implement techniques like lazy loading and code splitting to enhance page loading times	1.5	2.5	-	1
PC18.	optimize images and resources for better performance	1.5	2.5	-	1
<i>Testing and Debugging</i>		2	5	-	2

	PC19. use tools like Chrome DevTools to debug front-end issues and optimize performance	1	2.5	-	1
	PC20. develop unit and integration tests using frameworks like Jest or Mocha for reliable code	1	2.5	-	1
	<i>Generative AI</i>	3	4	-	2
	PC21. use Generative AI tools like OpenAI, Google Bard, or Microsoft Copilot to automate tasks such as ticket categorization and prompt responses	1	2	-	1
	PC22. utilize Generative AI for documentation, including creating resolutions for incidents and automating repetitive tasks	1	1	-	0.5
	PC23. identify opportunities to improve issue resolution speed and accuracy using Generative AI tools and other innovative solutions	1	1	-	0.5
	Total Marks	30	50	-	20
SSC/N0503: Develop Media Content and Graphics for Software Products and Applications	<i>Media Content and Graphic Design Development</i>	12	18	-	6
	PC1. convert Business Requirements Specification (BRS) and Software Requirements Specification (SRS) into media content and graphic designs, using available resources and tools	2	3	-	1
	PC2. access reusable components, media, and graphical packages from the organization's knowledge base to optimize design work	2	3	-	1
	PC3. utilize reusable components to create dynamic and responsive media content and graphic designs	2	3	-	1
	PC4. ensure the media content and graphic designs align with the overall design specifications and business objectives	2	3	-	1
	PC5. collaborate with stakeholders to gather feedback and refine media content and graphic designs to meet user needs	2	3	-	1
	PC6. maintain consistency in design elements, ensuring alignment with brand guidelines and user interface standards	2	3	-	1
	<i>Responsive Web Design</i>	4	8	-	3
	PC7. design media content and graphics optimized for various screen sizes and devices, ensuring responsiveness and fluid layout across platforms	2	4	-	1.5
	PC8. apply mobile-first design principles and use frameworks like Bootstrap to create adaptable web designs	2	4	-	1.5
	<i>Web Accessibility Standards</i>	4	7	-	3
	PC9. evaluate and test media content and graphic designs for compliance with web accessibility standards (WCAG), ensuring usability for all users	2	3.5	-	1.5
	PC10. collaborate with accessibility experts to address potential barriers in media content and graphic designs, making necessary adjustments for full inclusivity	2	3.5	-	1.5
	<i>Dynamic Content Integration</i>	2	3	-	2
	PC11. integrate dynamic content elements, such as interactive graphics or data-driven media, into software applications to enhance user experience and engagement	2	3	-	2
	<i>Review and Feedback Process</i>	4	6	-	2

	PC12. assess media content and graphic designs with superiors to measure quality and effectiveness, incorporating their input for improvements	2	3	-	1
	PC13. modify media content and graphic designs based on feedback, ensuring they meet project objectives and specifications	2	3	-	1
	<i>Documentation and Knowledge Sharing</i>	2	4	-	2
	PC14. record defects and corrective actions taken during the design process to inform future work and design improvements	1	2	-	1
	PC15. document insights and experiences gained from developing media content and graphic designs, and update the organization's knowledge base accordingly	1	2	-	1
	<i>Compliance and Approval</i>	2	4	-	2
	PC16. present the finalized media content and graphic designs to supervisors for approval, ensuring adherence to all relevant guidelines and standards.	1	2	-	1
	PC17. comply with organizational policies, procedures, and guidelines when creating media content and graphic designs.	1	2	-	1
	Total Marks	30	50	-	20
DGT/VSQ/N0101: Employability Skills (30 Hours)	<i>Introduction to Employability Skills</i>	1	1	-	-
	PC1. understand the significance of employability skills in meeting the job requirements	-	-	-	-
	<i>Constitutional values – Citizenship</i>	1	1	-	-
	PC2. identify constitutional values, civic rights, duties, personal values and ethics and environmentally sustainable practices	-	-	-	-
	<i>Becoming a Professional in the 21st Century</i>	1	3	-	-
	PC3. explain 21st Century Skills such as Self- Awareness, Behavior Skills, Positive attitude, self-motivation, problem-solving, creative thinking, time management, social and cultural awareness, emotional awareness, continuous learning mindset etc.	-	-	-	-
	<i>Basic English Skills</i>	2	3	-	-
	PC4. speak with others using some basic English phrases or sentences	-	-	-	-
	<i>Communication Skills</i>	1	1	-	-
	PC5. follow good manners while communicating with others	-	-	-	-
	PC6. work with others in a team	-	-	-	-
	<i>Diversity & Inclusion</i>	1	1	-	-
	PC7. communicate and behave appropriately with all genders and PwD	-	-	-	-
	PC8. report any issues related to sexual harassment	-	-	-	-
	<i>Financial and Legal Literacy</i>	3	4	-	-
	PC9. use various financial products and services safely and securely	-	-	-	-

	PC10. calculate income, expenses, savings etc.	-	-	-	-
	PC11. approach the concerned authorities for any exploitation as per legal rights and laws	-	-	-	-
	<i>Essential Digital Skills</i>	4	6	-	-
	PC12. operate digital devices and use its features and applications securely and safely	-	-	-	-
	PC13. use internet and social media platforms securely and safely	-	-	-	-
	<i>Entrepreneurship</i>	3	5	-	-
	PC14. identify and assess opportunities for potential business	-	-	-	-
	PC15. identify sources for arranging money and associated financial and legal challenges	-	-	-	-
	<i>Customer Service</i>	2	2	-	-
	PC16. identify different types of customers	-	-	-	-
	PC17. identify customer needs and address them appropriately	-	-	-	-
	PC18. follow appropriate hygiene and grooming standards	-	-	-	-
	<i>Getting ready for apprenticeship & Jobs</i>	1	3	-	-
	PC19. create a basic biodata	-	-	-	-
	PC20. search for suitable jobs and apply	-	-	-	-
	PC21. identify and register apprenticeship opportunities as per requirement	-	-	-	-
	Total Marks	20	30	-	-
Grand Total		80	130	-	40

Annexure 7: 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.

Batch Creation & Assessment Request:

Training Providers (TP) or Training Centers (TC), including any other authorized partner of Ministry/ Department create batches / push batches on the SIDH portal. Assessment requests are submitted through the SIDH portal or via email or other media as authorized from time to time. For NON-SIDH schemes, assessment requests are received electronically or through respective State Skill Mission portals. TP/TC initiates the assessment request through the InSDMS portal and processes the payment (where applicable).

Batch Alignment & Confirmation:

Upon payment confirmation, batches are assigned to the Assessment Agency based on factors like:

- Assessment readiness
- Availability of certified assessors for the specific job role
- Assessment capping to an assessment agency as prescribed from time to time for an AB An email communication / prescribed mode communication is sent to TP/TC for confirmation of the assessment date, with IT-ITeS SSC in the loop. Once confirmation is received, the Assessment Agency designates a TOA-certified assessor to conduct or facilitate the assessment.
- Batches are only formed when the Qualification is active.

Candidate Verification & Assessment Execution:

Candidate details are verified and documented at the beginning of the assessment by a certified assessor. A Quality Assurance (QA) mechanism is enforced, requiring an undertaking from the TC. Regular feedback is collected from TP/TC to ensure continuous improvement.

Evidence Collection & Validation:

Proctors or assessors capture date/time-stamped and geo-tagged photographs of the assessment location during the process. Attendance is also ensured offline. A PC-wise result analysis is conducted to refine assessment standards.

Monitoring & Compliance:

Batch monitoring follows established protocols, ensuring adherence to assessment guidelines. Sample based surprise visits are conducted at TC locations during both training and assessments to verify compliance. This structured approach ensures transparency, quality control, and validation throughout the assessment process.

Testing Environment:

- Check the Assessment location, date and time
- If the batch size is more than 30, then there should be 2 Assessors.
- Check that the allotted time to the candidates to complete Theory & Practical Assessment is correct.

Assessment Quality Assurance levels/Framework:

IT-ITeS SSC nasscom is responsible for the development and periodic review of the question bank developed for a specific job role. We publish an openly accessible sample /model question paper on our website for all stakeholders. The quality of the Question Bank created by the assessment designer is validated by a Subject matter experts on the following parameters:

- Appropriateness of the Question Bank in terms of facts, data and information.

- Checks for grammar, spellings, scripting and formatting.
- The information provided should be specific enough to remove any ambiguity in answers/solutions to the question.
- Relevance – Assessing the topic well w.r.t. the job role.
- Check if the difficulty level of each question is as per the matrix.
- Check if the images used in the question are clear and relevant.
- All variables, symbols and abbreviations used must be declared.
- The correct answer option should be unique, and the options should not be overlapping

Annexure 8: 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
NOS	National Occupational Standard(s)
NQR	National Qualification Register
NSQF	National Skills Qualifications Framework
OJT	On the Job Training
NASSCOM	National Association of Software and Service Companies
IT-ITeS	Information Technology and Information Technology Enabled Services
Gen AI	Generative Artificial Intelligence
CRM	Customer Relationship Management
BRS	Business Requirements Specification
URS	User Requirements Specification
SRS	Software Requirements Specification
HLD	High-Level Design
WCAG	Web Content Accessibility Guidelines
HTML	Hypertext Mark-up Language
CSS	Cascading Style Sheets
CI/CD	Continuous Integration/Continuous Deployment
UML	Unified Modelling Language

Glossary

Term	Description
National Occupational Standards (NOS)	NOS defines 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.
Long Term Training	Long-term skilling means any vocational training program undertaken for a year and above. https://ncvet.gov.in/sites/default/files/NCVET.pdf