

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 Skill ☐ OEM

NCrF/NSQF Level: 4

Submitted By: Namrata Kapur

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 the existing /previous qualification: 2022/ITES/ITSSC/05250 & Version 2	Qualification Name of the existing/previous version: Web Developer
4.	Qualification Name (Wherever applicable)	Web Developer	
5.	National Qualification Register (NQR) Code &Version (Will be issued after NSQC approval)	QG-03-IT-01575-2023-V1.1-NASSCOM	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	Individuals at this job are responsible for designing and maintaining web-based applications that include static and dynamic content. This includes the design, layout, and coding of a website. They may work independently or along with application/functional developers as part of the overall solution that includes a web-based component.	
9.	Eligibility Criteria for Entry for a Student/Trainee/Learner/Employee	Entry Qualification & Relevant Experience: *Relevant Experience: Experience in Programming languages (Such as HTML, CSS, Javascript, etc.) The relevant experience would include work, internship, and apprenticeship after completing relevant educational qualifications. 12th Grade Pass with computer background OR 10th Grade Pass with 2 Years of relevant experience* OR Previous Relevant qualification of NSQF level 3 with 3 years of relevant experience* Min Age: 16 Years	

10.	Credits Assigned to this Qualification, Subject to Assessment (<i>as per National Credit Framework (NCrF)</i>)	13 Credits	11. Common Cost Norm Category (I/II/III) (<i>wherever applicable</i>): II																		
12.	Any Licensing Requirements for Undertaking Training on This Qualification (<i>wherever applicable</i>)	NA																			
13.	Training Duration by Modes of Training Delivery (<i>Specify Total Duration as per selected training delivery modes and as per requirement of the qualification</i>)	☒ Offline Only ☒ Online Only ☐ Blended <table border="1"> <thead> <tr> <th>Training Delivery Mode</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>123</td><td>207</td><td>60</td><td>-</td><td>390</td></tr> <tr> <td>Online</td><td>123</td><td>207</td><td>60</td><td>-</td><td>390</td></tr> </tbody> </table> (Refer Blended Learning Annexure for details)		Training Delivery Mode	Theory (Hours)	Practical (Hours)	OJT (Mandatory) Hours	OJT (Recommended) Hours	Total (Hours)	Classroom (offline)	123	207	60	-	390	Online	123	207	60	-	390
Training Delivery Mode	Theory (Hours)	Practical (Hours)	OJT (Mandatory) Hours	OJT (Recommended) Hours	Total (Hours)																
Classroom (offline)	123	207	60	-	390																
Online	123	207	60	-	390																
14.	Aligned to NCO/ISCO Code/s (<i>if no code is available mention the same</i>)	NCO-2015/ 2513.0101																			
15.	Progression Path After Attaining the Qualification, wherever applicable (<i>Please show Professional and Academic progression</i>)	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 Amenable to Persons with Disability	☒ Yes ☐ No If "Yes", specify applicable type of Disability: Visual, Hearing or Speech impairment, Locomotor Disability																			
19.	How will participation of women be encouraged?	The Program is gender neutral although to increase women's participation, organizations are keeping aside a few seats to encourage female candidates.																			

20.	Are Greening/Environment Sustainability Aspects covered (<i>Specify the NOS/Module which Covers it</i>)	☐ Yes ☒ No	
21.	Is Qualification suitable to be offered in Schools/Colleges	Schools: ☐ Yes ☒ No	Colleges ☒ Yes ☐ No
22.	Name and Contact Details Submitting / Awarding Body SPOC (<i>In case of CS or MS, provide details of both Lead AB & Supporting ABs</i>)	Name: Namrata Kapur Email: Namrata@nasscom.in Contact No.: 0120-4990111 Website: https://nasscom.in	
23.	Final Approval Date by NSQC: 27th Jan 2022	24. Validity Duration: 3 Years	25. Next Review Date: 27th Jan 2025

Section 2: Module Summary

NOS/s of Qualification

(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 Training **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 V2.0	Core	4	03	33:00	57:00	00:00	00:00	90:00	40	60	-	-	100	35
2.	Develop media content and graphic designs for software products and applications	SSC/N0503 V2.0	Core	4	05	56:00	94:00	00:00	00:00	150:00	20	80	-	-	100	35
3.	Maintain an inclusive, environmentally sustainable workplace	SSC/N9014 V1.0	Non-Core	5	01	10:00	20:00	00:00	00:00	30:00	20	80	-	-	100	15
4.	Employability Skills (60 Hours)	DGT/VSQ/N0102 V1.0	Non-Core	4	02	24:00	36:00	00:00	00:00	60:00	20	30	-	-	50	15
5.	OJT	-	-	-	02	00:00	00:00	90:00	00:00	60:00	-	-	-	-	-	-
Duration (in Hours) / Total Marks			-	-	13	123:00	207:00	60:00	00:00	390:00	100	250	-	-	350	100%

Assessment - 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: Minimum 12th Standard. Industry experience: Minimum 2 years' experience in Programing languages (Such as HTML, CSS, JavaScript etc.) Training experience: Minimum 1-year experience Certification: "Trainer" mapped to the Qualification Pack "MEP/Q2601, V2.0" 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: Minimum 12th Standard passed. Industry experience: Minimum 2 years' experience in Programing languages (Such as HTML, CSS, JavaScript etc.) Training experience: Minimum 1-year experience Certification: "Master Trainer" mapped to the Qualification Pack "MEP/Q2602" Minimum accepted score is 90% aggregate.
3.	Tools and Equipment Required for the 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 experience: 2 years of experience in Programming languages (Such as HTML, CSS, JavaScript etc.) Training experience: 2 years Certification: Job role "Assessor (VET and SKILLS)" mapped to the Qualification Pack "MEP/Q2701, V2.0" with a minimum score of 80%
2.	Proctor's Qualification and experience in relevant sector (in years) <i>(as per NCVET guidelines), (wherever applicable)</i>	Educational Qualification: Graduate in any discipline Industry experience: 2 years of experience in Programming languages (Such as HTML, CSS, JavaScript etc.) Training experience: 2 years Certification: Job role "Assessor (VET and SKILLS)" mapped to the Qualification Pack "MEP/Q2701, V2.0" with a minimum score of 80%
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 experience: 2 years of experience in Programming languages (Such as HTML, CSS, JavaScript etc.) Training experience: 2 years Certification: Job role "Assessor (VET and SKILLS)" mapped to the Qualification Pack "MEP/Q2701, V2.0" with a minimum score of 80%
4.	Assessment Mode <i>(Specify the assessment mode)</i>	Can be either in the classroom or online
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): Yes
3.	Government/Industry initiatives/requirement (Yes/No): Yes
4.	Number of industry validations provided:
5.	Estimated number of people to be trained and employed: Yes
6.	Evidence of Concurrence/Consultation with Line/State Departments: Yes 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/NSQF descriptors <i>(Mandatory)</i>	Evidence of Level
2.	Annexure: List of tools and equipment relevant for NOS <i>(Mandatory, except in case of online course)</i>	Tools and Equipment (lab set-up)
3.	Annexure: Detailed Assessment criteria <i>(Mandatory)</i>	Performance Criteria Details
4.	Annexure: Assessment Strategy <i>(Mandatory)</i>	Assessment Strategy
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>)	NA
8.	Supporting Document: Model Curriculum (<i>Mandatory-Public View</i>)	MC_SSCQ0503-Web developer_V3.0
9.	Supporting Document: Career Progression (<i>Mandatory-Public View</i>)	Occupational Map – ITS
10.	Supporting Document: Occupational Map (<i>Mandatory</i>)	Occupational Map - ITS
11.	Supporting Document: Assessment SOP (<i>Mandatory</i>)	Assessment Strategy
12.	Any Other document you wish to submit:	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
Professional Theoretical Knowledge/Process knowledge	- Contribute to the design of software products and applications. - Develop media content and graphic designs for software products and applications. - Manage your work to meet requirements. - Work effectively with colleagues - Maintain a healthy, safe, and secure working environment. - Provide data/information in standard formats. - Maintain an inclusive, environmentally sustainable workplace.	Individuals at this job require essential skills to be able to understand the Business Requirements Specification (BRS)/User Requirements Specification (URS), Software Requirements Specification (SRS) and High-Level Design (HLD) to contribute to the design of software products and applications. He/she needs to have a clear understanding & choice of procedures to analyse inputs from appropriate people to identify, resolve and record design defects and inform future designs.	4

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
		He/she also needs to review the designs & document them using standard templates and tools and ensure that they comply with the organization's policies, procedures and guidelines when contributing to the design of software products and applications	
Professional and Technical Skills/ Expertise/ Professional Knowledge	• The approval process for designs of software products and applications. • How to design basic program structures, software products and software applications. • Different sources of information to help design software products and specifications. • Common design defects and how to resolve them. • Current practice in the infrastructure design of software products and applications. • The range of activities involved in designing different software products and applications. • How to test new products and applications to fit for purpose. • Implications new products and applications may have on business processes and infrastructure. • The scope of work to be executed and the importance of keeping within the level of one's competency and authority. • How to analyse and use feedback to improve media content and graphic designs • Who may need to be involved to provide feedback on the media content and graphic designs? • Organization's approval process for media content and graphic designs	This job requires factual knowledge of field of work or study to contribute to the design of software products and applications and develop media content and graphic designs for software products and applications. He/she should have knowledge relating to the field of work or study, including: • How to interpret and follow different design specifications, including Business Requirements Specification (BRS), User Requirements Specification (URS), Software Requirements, Specification (SRS), High Level Design (HLD) • how to design basic program structures • how to design software products • how to design software applications	4

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
	• The process for converting design specifications into media content and graphic designs. • Current practice in developing media content and graphic designs • How recording corrective actions for problems and defects can improve future designs • How to create, review and execute media content and graphic designs • How to determine whether components are suitable for re-use • Different types of problems and defects that may occur during media content development and designing and how these may be resolved. • How to test media content and graphic designs to fit for purpose. • Different sources of information help to develop media content and graphic designs		
Employment Readiness & Entrepreneurship Skills & Mind-set/Professional Skill	• Produce work output in prescribed format with accurate details. • Get familiarized with current changes in procedures and practices in the role. • Draw a conclusive plan to complete the tasks within given deadlines. • Apply problem-solving approaches in different situations. • Configure data and disseminate relevant information and constructive opinions, applying balanced judgments to different situations. • Practice utilizing information technology efficiently to insert or extract data accurately. • Complete work output writing the details accurately. • Follow the process of rule-based decision-making. • Check if decisions need to be referred to, or ratified by, line managers.	Individuals at this Job need to have practical skills required to be able to design and maintain web-based applications that include static and dynamic content. He/she needs to use basic information, methods & tools to check that the work meets customer requirements & hence meet and exceed customer expectations. Also, based on the relevant information collected, he/she should have the ability to make decisions and act independently.	4

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
	• Allocate tasks wisely to meet targets and deadlines. • Work efficiently with colleagues in a customer-centric environment to cater to customer requirements. • Analyse data and refer anomalies to provide accurate reports to the supervisor. • Apply competency skills to solve problems in different situations. • Pass relevant information and constructive opinions to colleague's post data configuration, applying balanced judgments to various situations		
Broad Learning Outcomes/Core Skill	• Listen actively and communicate with others orally and in writing. • Seek input and suggestions from line managers. • Work in a customer-facing environment with peers to build and maintain positive and effective relationships with customers to meet their requirements. • Follow instructions, guidelines, procedures, rules, and service level agreements. • Practice active listening and verbally communicating information. • Follow quality assurance standards and produce error-free works. • Work independently and collaboratively • Use information technology to browse the internet	Individuals at this job need to have arithmetic and algebraic skills to comply with Business Requirements Specification (BRS)/User Requirements Specification (URS), Software Requirements Specification (SRS) and High-Level Design (HLD) to contribute to the design of software products and applications. The individual should be result oriented. The individual should also be able to demonstrate skills for communication, creative and logical thinking.	4
Responsibility	• Functional and non-functional software requirements • Selection of technical solution of software related issues and backing rationales through proper usage of High-Level Design (HLD) • Seek guidance and advice from peers or supervisors. • Basic requirements to prepare High Level Design (HLD) • Checklists for coding standards of programming structure • Communicate with peers and supervisor to complete project	Individuals at this job are responsible for designing and maintaining web-based applications that include static and dynamic content. This includes the design, layout, and coding of a website. They may work standalone or along with application/functional developers as part of the overall solution that includes a web-based component.	4

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
		This job may require the individual to work independently. Individual at this job does not work under supervision, as needed at Level 3. He/she is only responsible for his/her own work (as in level 4). Therefore, this QF is justified to be pegged at Level 4	

Annexure: Tools and Equipment (lab set-up)

Batch Size:

S. No.	Tool / Equipment Name	Specification	Quantity for specified Batch size
1	PC/Laptop with internet	With Wifi (2MBPS Dedicated)	1 Unit per Trainee
2	Relevant Software: CRM Tool for demonstration	HTML5, JavaScript, CSS, SQL, Web Builder, Word Press, Joomla, and modelling tools such as Visio, UML.	1 Unit per Trainee
3	Microphone/Voice System	For lecture & class activities	1 Unit for Trainer
4	White Board		1 Unit for Trainer
5	White Board Maker		1 Unit for Trainer
6	Projector		1 Unit

Annexure: Industry Validations Summary

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

S. No	Organisation Name	Representative Name	Designation	Contact Address	Contact Phone No	E-mail ID	LinkedIn Profile (if available)
1	Accenture	Ramesh L Krishnan	Managing Director			Ramesh.L.krishnan@accenture.com	

2	Concentrix	Anil Kumar	VP Service Delivery			anil.kumar@concentrix.com	
3	Conneqt	Arjun Ramaraju	Chief Executive Officer			arjun.ramaraju@conneqtcorp.com	
4	CSS Corp	Benedict Arokiasamy	VP L&D			Benedict.Arokiasamy@Cssc.com	
5	eclerx	Rohitash Gupta	CFO			rohitash.gupta@eclerx.com	
6	EXL Service	Vikas Bhalla	EVP & Head of Insurance			vikas.bhalla@extservice.com	
7	First Source	Prasanth Nandella	Chief Operating Officer			Prasanth.nandella@firstsource.com	
8	HGS	Smita Basu	GM Corporate Projects			smita.basu@teamhgs.com	
9	IGI Solutions	Chander Prakash Gurnani	VP-HR			Chander.gurnani@igisolutions.com	
10	Indecomm	Neeta Dabral	Head of HR			neeta.dabral@indecmm.net	
11	India Today	GL Ravikumar	DGM Operations			gl.ravikkumar@intoday.com	
12	Mahindra	Mahesh Krishnamoorthy	Chief Business Officer			krishnamoorthy.mahesh@mahindra.com	
13	Skandysys	Narendra Nande	Head of Software Engg.			naren.nande@skanysys.com	
14	Startek	Sriram Raghunandan	VP-HR			sriram.r@startek.com	
15	Sumasoft	Surendra Brahme	Director			surendra@sumasoft.com	
16	Sutherland	Harita Gupta	SVP-APAC Head & Global Enterprise Head			harita.gupta@sutherlandglobal.com	
17	TechMahindra	Ritesh Idnani	President-Business Process Services			Ritesh.idnani@techmahindra.com	
18	Wipro	Sandesh Kumar	GM & Head Recruitment			sandesh.kumar@wipro.com	
19	WNS	Sanjay Puria	Group CFO			Sanjay.puria@wns.com	

Annexure: Training & Employment Details

Training & Employment Projections:

Year	Total Candidates		Women		People with Disability	
	Estimated Training #	Estimated Employed Opportunities	Estimated Training #	Estimated Employed Opportunities	Estimated Training #	Estimated Employed Opportunities
2023-24	120	-	-	-	-	-
2024-25	200	-	-	-	-	-
2025-26	250	-	-	-	-	-

#The Estimated Data is an average for each state.

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

Qualification Version	Year	Total Candidates			Women			People with disability		
		Trained	Assessed	Certified	Trained	Assessed	Certified	Trained	Assessed	Certified
	2022-23	-	22910*	-	-	-	-	-	-	-

*The total assessed candidate job role count is for 10 states.

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

1. PMKVY

Content availability for the previous version of qualifications:

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

Language in which content is available:

Annexure: Detailed Assessment Criteria

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

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	PC1. Understand Business Requirements Specification (BRS)/User Requirements Specification (URS), and Software Requirements Specification (SRS) with appropriate people	10	-	-	-
	PC2. Check the understanding of High-Level Design (HLD) concept with appropriate people	5	-	-	-
	PC3. Design basic programming structures to implement functionality in line with requirements defined in BRS/URS, SRS and HLD	-	40	-	-
	PC4. Review the designs with industry experts	10	-	-	-
	PC5. Analyse inputs from superiors to identify, resolve and record design defects and inform future designs	15	-	-	-
	PC6. Document the details of designs using standard templates and tools	-	10	-	-
	PC7. Comply with organizational policies, procedures and guidelines when contributing to the design of software products and applications	-	10	-	-
	Total Marks	40	60	-	-
SSC/N0503: Develop media content and graphic designs for software products and applications.	PC1. verify Business Requirements Specification (BRS), Software Requirements Specification (SRS), High Level Design (HLD) and Low-Level Design (LLD)	10	-	-	-
	PC2. access reusable components, media and graphical packages and tools from the organization's knowledge base	-	10	-	-
	PC3. convert requirements into media content and graphic designs, leveraging reusable components where available	-	20	-	-
	PC4. review media content and graphic designs with superiors and analyse their feedback	5	5	-	-
	PC5. record any defects and corrective actions taken to inform future work	-	10	-	-
	PC6. rework media content and graphic designs, incorporating feedback	5	5	-	-
	PC7. submit media content and graphic designs for approval to supervisor	-	10	-	-
	PC8. update the organization's knowledge base with the experiences of the media content and graphic designs developed	-	10	-	-
	PC9. comply with organizational policies, procedures and guidelines when developing media content and graphic designs developed	-	10	-	-
	Total Marks	20	80	-	-
SSC/N9014: Implement & Improve the Gender Sensitivity, PWD Sensitivity and Greening	PC1. optimize usage of electricity/energy, materials, and water in various tasks/activities /processes and plan the implementation of energy efficient systems in a phased manner	5	15	-	-
	PC2. segregate recyclable, non-recyclable and hazardous waste generated for disposal or efficient waste management	5	15	-	-
	PC3. understand the diversity policy of the organization and use internal & external communication to colleagues to improve	5	10	-	-

NOS/Module Name	Assessment Criteria for Performance Criteria/Learning Outcomes	Theory Marks	Practical Marks	Project Marks	Viva Marks
	PC4. comply with PwD inclusive policies for an adaptable and equitable work environment	-	10	-	-
	PC5. improve through specifically designed recruitment practices, PwD friendly infrastructure, job roles, etc.	-	20	-	-
	PC6. improve through specifically designed recruitment practices, PwD friendly infrastructure, job roles, etc.	5	10	-	-
	Total Marks	20	80	-	-
DGT/VSQ/N0102 Employability NOS for 60 Hours	PC1. Introduction to Employability Skills	1	1	-	-
	PC2. Constitutional values – Citizenship	1	1	-	-
	PC3. Becoming a Professional in the 21st Century	2	4	-	-
	PC4. Basic English Skills	2	3	-	-
	PC5. Career Development & Goal Setting	1	2	-	-
	PC6. Communication Skills	2	2	-	-
	PC7. Diversity & Inclusion	1	2	-	-
	PC8. Financial and Legal Literacy	2	3	-	-
	PC9. Essential Digital Skills	3	4	-	-
	PC10. Entrepreneurship	2	3	-	-
	PC11. Customer Service	1	2	-	-
	PC12. Getting Ready for Apprenticeship & Jobs	2	3	-	-
	Total Marks	20	30	-	-
Grand Total Marks		100	250		

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

A uniform assessment of job candidates per industry standards facilitates the industry's progress by filtering employable individuals while simultaneously providing candidates with an analysis of personal strengths and weaknesses.

Assessment Criteria

The Sector Skill Council will create criteria for assessment for each Qualification Pack. Each Performance Criteria (PC) will be assigned marks proportional to its importance in NOS. SSC will also lay down the proportion of marks for Theory and Skills Practical for each PC. The assessment for the theory part will be based on a knowledge bank of questions created by the SSC. Assessment will be conducted for all compulsory NOS and where applicable, on the selected elective/option NOS/set of NOS.

Guidelines for Assessment			
Testing Environment	Tasks and Functions	Productivity	Teamwork
- Carry out assessments under realistic work pressures found in the normal industry workplace (or simulated workplace). - Ensure that the range of materials, equipment, and tools that learners use are current and of the type routinely found in the normal industry workplace (or simulated workplace) environments.	- Assess that all tasks and functions are completed in a way, and to a timescale that is acceptable in the normal industry workplace. - Assign workplace (or simulated workplace) responsibilities that enable learners to meet the requirements of the NOS.	Productivity levels must be checked to ensure that it reflects those that are found in the work situation being replicated.	Provide situations that allow learners to interact with the range of personnel and contractors found in the normal industry workplace (or simulated workplace).

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
OJT	On Job Training

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 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 about 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 based on their main economic function, product, service, or technology.

Annexure: Market Research & Gap Analysis

While collecting data from the companies for the occupational map, we also took feedback from industry, training institutions which was collected with respect to roles for which qualification files development, was to be prioritized. This was largely based on volume of people required, quantitative and qualitative shortfall which the industry feels they face. Governing council of IT - ITeS and Occupational Standards Committee which comprises of experts & senior leaders gave final approval and endorsement for the same.

The Indian IT industry's revenue is estimated to reach US\$ 194 billion in FY21, an increase of 2.3% YoY. The sector is the largest employer within the private sector. According to Gartner estimates, IT spending in India is estimated to reach US\$ 93 billion in 2021 (7.3% YoY growth) and further increase to US\$ 98.5 billion in 2022.

The IT industry accounted for 8% of India's GDP in 2020. Exports from the Indian IT industry are expected to increase by 1.9% to reach US\$ 150 billion in FY21. In 2020, the IT industry recorded 138,000 new hires. According to STPI (Software Technology Park of India), the software exports by its registered units increased by 7% YoY to reach Rs. 5 lakh crore (US\$ 67.40 billion) in FY21 from Rs. 4.66 lakh crore (US\$ 62.82 billion) in FY20, driven by rapid digitization and the IT industry's timely transition to remote working environments that helped to keep up the industry's growth amid coronavirus pandemic.

In Budget 2021, the government has allocated Rs. 53,108 crore (US\$ 7.31 billion) to the IT and telecom sector

In India there are 421 approved SEZs across the country, with 276 of them from IT & BPM and 145 as exporting SEZs. The IT & BPM industry's revenue is estimated at ~US\$ 194 billion in FY21, an increase of 2.3% YoY. The domestic revenue of the IT industry is estimated at US\$ 45 billion and export revenue is estimated at US\$ 150 billion in FY21.

Annexure: Government/Industry initiatives/requirement

Overview of the occupational demand, that includes 'Web Developer', is available in the talent demand supply document. NASSCOM's Strategic Review, 2020 articulates 2.40 lakh as new hires for the IT-BPM industry. Through training providers', the requirement is estimated as 2100 for FY 19-20.

Annexure: Evidence of Concurrence/Consultation with Line/State Departments: