Qualification Title:	WEB DEVELOPMENT NC III		
COC 1	Developing Responsive Web Design		
Units of Competency Covered	Utilize Software MethodologiesDevelop Responsive Web Design		
Instruction: Read eac answer.	h question and check the appropriate box to in	ndicate	your
Can I?		YES	NO
Utilize Software Meth	odology		
Identify project require	ments and software methodology		
Determine project	requirements and identify resources*		
	ess appropriate type of software development accordance with the project requirements*		
Apply software method	lologies		
Estimate project methodology*	t effort and duration based on software		
Create project sch	nedule based on software methodology		
Monitor project flo			
Utilize code versioning	tools		
appropriately*	select, install and utilize code versioning tool		
Conduct Testing	requirements and chiestives as required*		
	requirements and objectives as required* orate feedback to relevant changes		
	ions or changes to the code		
	of the system test to determine acceptability of the		
Develop Responsive	Web Design	Į.	
Perform research and	analytics		
insights	g of information from the clients and social media		
 Prepare list of libranding 	relevant topics based on business noise and		
Identify and prepare de			
	specifications/requirements for project		
Determine resou client's requireme	rces, budget and schedule for project as per nts		
List and match clic	ent's goals with the research and analysis		

	T 1
 Develop sitemap, moodboards and wirefram creations, photos and graphics* 	ne with content
Design and develop user-friendly responsive web interf	ace
Identify and utilize design tools based on project re	equirements
Prepare mock-ups and apply to user interface com	nponents*
 Apply user experience principles to the brand guid 	elines*
Make revisions based on client's requests	
Develop HTML/CSS website	
 Perform slicing of mock-ups based on approved de 	
 Create HTML pages and CSS with navigation and website contents are added on pages* 	menu, hyperlinks
 Validate, implement revisions and submit HTML W3C standards* 	/CSS website on
 Prepare final HTML/CSS website for publishing* 	
Utilize File Transfer Protocol (FTP) Program for up	ploading*
Use/Deploy website content management system (CMS	3)
 Identify and install Content Management Sy required using FTP* 	stem (CMS) as
 Select ready-made template and incorporate ready CMS 	y-made plugins to
 Upload website contents to CMS based on project 	requirements
 Implement revisions, submit and publish website on approved design* 	with CMS based
Performs search engine optimization (SEO)	
 Finalize list of keywords based on research and ar 	nalytics
Conduct checking of website to ensure latest SEO	standards*
 Add search engine tools to the website for measurement 	or tracking and
 Perform social media and website housekeeping requirements 	based on project
I agree to undertake assessment in the knowledge that be used for professional development purposes are concerned assessment personnel and my manager/sup	nd can only be accessed by
Candidate's signature:	Date:

Note to the Candidate: The use of cellphone/smart phone with or without camera is NOT ALLOWED during the assessment.

Reference No.								

Qualification Title:	WEB DEVELOPMENT NC III		
COC 2	Creating Interactive Websites		
Units of Competency Covered	Utilize Software MethodologiesCreate Interactive Websites		
Instruction: Read each answer.	question and check the appropriate box to in	ndicate	your
Can I?		YES	NO
Utilize Software Metho	odology		
Identify project requirem	nents and software methodology		
Determine project i	requirements and identify resources*		
	ss appropriate type of software development ccordance with the project requirements*		
Apply software methodo	ologies		
Estimate project methodology*	effort and duration based on software		
Create project sche	edule based on software methodology		
Monitor project flow	v based on project schedule		
Utilize code versioning t	ools		
Identify, assess/seappropriately*	elect, install and utilize code versioning tool		
Conduct Testing			
 Determine testing r 	requirements and objectives as required*		
 Obtain and incorpo 	rate feedback to relevant changes		
Administer alteration	ons or changes to the code		
Evaluate results of system	the system test to determine acceptability of the		
Create Interactive Web	osites		
Inspect and analyze HT	ML/CSS files		
Check and analyz the page source*	e approved and complete layout information in		
	raction of the contents and presentation of the dance with the initial specifications and plans*		

Gather and review specifications and requirements
Identify functional and non-functional requirements based on project specifications
Select client-side script framework based on the project requirements for web application*
Determine scope of the project (minimum requirements with FURPS)
Determine budget, resources and schedule in the website/project requirements
Apply client-side script to HTML/CSS
Prepare code editor using web design and application with appropriate major browser
Apply client-side script structures/libraries, best practices and style guides with script tags and document object model (DOM) as required in the areas*
Configure client-side script efficiency
Test client-side script syntax using a browser*
Utilize debugging software/applications and client-side script code checkers to fix errors and use minification tools as necessary*
Utilize content distribution network (CDN) from servers to deliver client-side script files to improve performance*
I agree to undertake assessment in the knowledge that information gathered will only be used for professional development purposes and can only be accessed by concerned assessment personnel and my manager/supervisor.
Candidate's signature: Date:

Note to the Candidate: The use of cellphone/smart phone with or without camera is NOT ALLOWED during the assessment activity.

Reference No.

Qualification Title:	WEB DEVELOPMENT NC III		
COC 3	Developing Website Backend Systems		
Units of Competency Covered	Utilize Software MethodologiesDevelop Website Backend Systems		
Instruction: Read each answer.	question and check the appropriate box to it	ndicate	your
Can I?		YES	NO
Utilize Software Metho	dology		
Identify project requirem	ents and software methodology	· · · · · · · · · · · · · · · · · · ·	
 Determine project r 	equirements and identifies resources*		
	s appropriate type of software development ccordance with the project requirements*		
Apply software methodo	logies		
 Estimate project methodology* 	effort and duration based on software		
Create project sche	edule based on software methodology		
Monitor project flow	based on project schedule		
Utilize code versioning to	ools		
 Identify, assess/se appropriately* 	elect, install and utilize code versioning tool		
Conduct Testing			
Determine testing relationships	equirements and objectives as required*		
Obtain and incorpo	rate feedback to relevant changes		
 Administer alteratio 	ns or changes to the code		
 Evaluate results of system 	the system test to determine acceptability of the		
Develop Website Back	end Systems		
Develop a Project Plan		, ·	
Determine project r	equirements and identify resources		
Prepare and preser	nt project plan based on project requirements*		

			1		
Configure web/cloud server					
 Identify and utilize web/cloud server provider by requirements 	pased on project				
Select server specifications and install required web server software based on project requirements					
 Configure web server user access based on web/cloud server* 	selected/required				
 Install and configure database server, HTTPS/S firewalls* 	SL, security and				
 Comply the uptime requirements based on visual selected and project requirements 	veb/cloud server				
Design Databases					
 Identify attributes and data types based on project 	requirements				
Develop entity relationship diagram based on projectionship.	ect requirements				
 Design data structures* 					
Develop Server Side Scripts					
Identify/Select appropriate side scripting language					
 Design and develop CRUD server side scripts and based on project requirements* 	I web service/API				
Develop web application using Model-View-Controller (MVC) framework				
Select and install appropriate MVC framework on a	server				
 Program and test web application using MVC* 					
I agree to undertake assessment in the knowledge that be used for professional development purposes are concerned assessment personnel and my manager/sup	nd can only be a				
Candidate's signature:	Date:				

Note to the Candidate: The use of cellphone/smart phone with or without camera is NOT ALLOWED during the assessment.

Reference No.

Qualification Title:	WEB DEVELOPMENT NC III		
FULL Units of Competency Covered	 Utilize Software Methodologies Develop Responsive Web Design Create Interactive Websites Develop Website Backend Systems 		
Instruction: Read each indicate your answer.	question and check the appropriate box to	YES	NO
DEVELOPING RESPONS	SIVE WEB DESIGN		
Utilize Software Method	ology		
Identify project requireme	nts and software methodology		
Determine project re-	quirements and identify resources*		
	appropriate type of software development cordance with the project requirements*		
Apply software methodolo	gies		
Estimate project methodology*	effort and duration based on software		
Create project sched			
Monitor project flow by	pased on project schedule		
Utilize code versioning too	ols	•	
Identify, assess/sele appropriately*	ects, installs and utilize code versioning tool		
Conduct Testing			
Determine testing required.	uirements and objectives as required*		
Obtain and incorpora	te feedback to relevant changes		
	s or changes to the code		
Evaluate results of the system	ne system test to determine acceptability of the		
Develop Responsive We			
Perform research and ana	<u> </u>	ı	
insights	information from the clients and social media		
 Prepare list of rele branding 	evant topics based on business noise and		

Identify and prepare design requirements	
Determine client specifications/requirements for project	
Determine resources, budget and schedule for project as per	
client's requirements	
List and match client's goals with the research and analysis	
Develop sitemap, moodboards and wireframe with content	
creations, photos and graphics*	
Design and develop user-friendly responsive web interface	
 Identify and utilize design tools based on project requirements 	
 Prepare mock-ups and apply to user interface components* 	
 Apply user experience principles to the brand guidelines* 	
 Make revisions based on client's requests 	
Develop HTML/CSS website	
 Perform slicing of mock-ups based on approved design* 	
 Create HTML pages and CSS with navigation menu, hyperlinks and 	
website contents are added on pages*	
 Validate, implement revisions and submit HTML/CSS website on W3C standards* 	
 Prepare final HTML/CSS website for publishing* 	
 Utilize File Transfer Protocol (FTP) Program for uploading* 	
Use/Deploy website content management system (CMS)	
 Identify and install Content Management System (CMS) as required using FTP* 	
 Select ready-made template and incorporate ready-made plugins to CMS 	
Upload website contents to CMS based on project requirements	
 Implement revisions, submit and publish website with CMS based on approved design* 	
Perform search engine optimization (SEO)	-
Finalize list of keywords based on research and analytics	
Conduct checking of website to ensure latest SEO standards*	
 Add search engine tools to the website for tracking and measurement 	
Perform social media and website housekeeping based on project	
requirements	
CREATING INTERACTIVE WEBSITES	
Utilize Software Methodology	
Identify project requirements and software methodology	
 Determine project requirements and identify resources* 	
 Select and assess appropriate type of software development methodologies in accordance with the project requirements* 	
Apply software methodologies	

Estimate project effort and duration based on software methodology*	
Create project schedule based on software methodology	
Monitor project flow based on project schedule	
Utilize code versioning tools	
 Identify, assess/selects, installs and utilize code versioning tool appropriately* 	
Conduct Testing	
Determine testing requirements and objectives as required*	
Obtain and incorporate feedback to relevant changes	
Administer alterations or changes to the code	
Evaluate results of the system test to determine acceptability of the system	
Create Interactive Websites	
Inspect and analyze HTML/CSS files	
Check and analyze approved and complete layout information in the page source*	
 Identify goals, interaction of the contents and presentation of the web wage in accordance with the initial specifications and plans* 	
Gather and review specifications and requirements	
Identify functional and non-functional requirements based on project specifications	
 Select client-side script framework based on the project requirements for web application* 	
Determine scope of the project (minimum requirements with FURPS)	
Determine budget, resources and schedule in the website/project requirements	
Apply client-side script to HTML/CSS	
 Prepare code editor using web design and application with appropriate major browser 	
 Apply client-side script structures/libraries, best practices and style guides with script tags and document object model (DOM) as required in the areas* 	
Configure client-side script efficiency	
Test client-side script syntax using a browser*	
Utilize debugging software/applications and client-side script code checkers to fix errors and use minification tools as necessary*	
Utilize content distribution network (CDN) from servers to deliver client-side script files to improve performance*	

DEVELOPING WEBSITE BACKEND	
Utilize Software Methodology	
Identify project requirements and software methodology	
Determine project requirements and identify resources*	
 Select and assess appropriate type of software development methodologies in accordance with the project requirements* 	
Apply software methodologies	
 Estimate project effort and duration based on software methodology* 	
Create project schedule based on software methodology	
Monitor project flow based on project schedule	
Utilize code versioning tools	
 Identify, assess/selects, installs and utilize code versioning tool appropriately* 	
Conduct Testing	
Determine testing requirements and objectives as required*	
Obtain and incorporate feedback to relevant changes	
Administer alterations or changes to the code	
 Evaluate results of the system test to determine acceptability of the system 	
Develop Website Backend Systems	
Develop a Project Plan	
Determine project requirements and identify resources	
 Prepare and present project plan based on project requirements* 	
Configure web/cloud server	
 Identify and utilize web/cloud server provider based on project requirements 	
Select server specifications and install required web server software based on project requirements	
 Configure web server user access based on selected/required web/cloud server* 	
 Install and configure database server, HTTPS/SSL, security and firewalls* 	
Comply the uptime requirements based on web/cloud server selected and project requirements	
Design Databases	
Identify attributes and data types based on project requirements	
Develop entity relationship diagram based on project requirements	
Design data structures*	
Develop Server Side Scripts	

 Identify/Select appropriate side scripting 	ng language			
 Design and develop CRUD server side scripts and web service/API based on project requirements* 				
Develop web application using Model-View-Controller (MVC) framework				
Select and install appropriate MVC framework on server				
Program and test web application using MVC*				
I agree to undertake assessment in the knowledge that information gathered will only be used for professional development purposes and can only be accessed by concerned assessment personnel and my manager/supervisor.				
Candidate's signature:	Date:			

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