Qualification Title:	WEB DEVELOPMENT NC III						
COC 1	Developing Responsive Web Design						
Units of Competency Covered  • Utilize Software Methodologies • Develop Responsive Web Design							
Instruction: Read each question ar	nd check the appropriate box to indicate your answe	er.					
Can I?		YES	NO				
Utilize Software Meth	odology						
Identify project requirer	ments and software methodology						
<ul> <li>Determine project</li> </ul>	requirements and identify resources*						
Select and assemethodologies in	ess appropriate type of software development accordance with the project requirements*						
Apply software method	lologies	Ţ					
<ul> <li>Estimate project methodology*</li> </ul>	t effort and duration based on software						
<ul> <li>Create project sch</li> </ul>	nedule based on software methodology						
Monitor project flo	w based on project schedule						
Utilize code versioning	tools						
appropriately*	select, install and utilize code versioning tool						
Conduct Testing							
<ul> <li>Determine testing</li> </ul>	requirements and objectives as required*						
<ul> <li>Obtain and incorp</li> </ul>	orate feedback to relevant changes						
<ul> <li>Administer alteration</li> </ul>	ions or changes to the code						
Evaluate results of system	f the system test to determine acceptability of the						
Develop Responsive	Web Design						
Perform research and	analytics						
insights	g of information from the clients and social media						
<ul> <li>Prepare list of in branding</li> </ul>	relevant topics based on business noise and						
Identify and prepare de	esign requirements						
Determine client s	pecifications/requirements for project						

Can	didate's signature:	Date:		
be i	ree to undertake assessment in the knowledge that used for professional development purposes and cerned assessment personnel and my manager/sup	d can only be a		•
•	Perform social media and website housekeeping requirements			
•	Add search engine tools to the website for measurement			
•	Conduct checking of website to ensure latest SEO	standards*		
•	Finalize list of keywords based on research and an	alytics		
Perf	orms search engine optimization (SEO)			
•	Implement revisions, submit and publish website on approved design*	with CMS based		
•	Upload website contents to CMS based on project	requirements		
•	Identify and install Content Management System required using FTP*  Select ready-made template and incorporate ready CMS	, ,		
Use	Deploy website content management system (CMS	<u>,                                      </u>	, , , , , , , , , , , , , , , , , , ,	
•	Utilize File Transfer Protocol (FTP) Program for up	loading*		
•	Prepare final HTML/CSS website for publishing*			
•	Create HTML pages and CSS with navigation and website contents are added on pages*  Validate, implement revisions and submit HTML/W3C standards*			
•	Perform slicing of mock-ups based on approved de			
Dev	elop HTML/CSS website			
•	Make revisions based on client's requests			
•	Apply user experience principles to the brand guide	elines*		
•	Prepare mock-ups and apply to user interface com	ponents*		
•	Identify and utilize design tools based on project re	quirements		
Desi	gn and develop user-friendly responsive web interfa	ace		
•	Develop sitemap, moodboards and wirefram creations, photos and graphics*	e with content		
•	List and match client's goals with the research and	analysis		
•	Determine resources, budget and schedule for client's requirements	project as per		

Reference No.															
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Qualification Title:	WEB DEVELOPMENT NC III		
COC 2	Creating Interactive Websites		
Units of Competency Covered	<ul><li>Utilize Software Methodologies</li><li>Create Interactive Websites</li></ul>		
Instruction: Read each question and	d check the appropriate box to indicate your answe	er.	
Can I?		YES	NO
Utilize Software Metho	odology		
Identify project requirem	nents and software methodology		
Determine project	requirements and identify resources*		
	ss appropriate type of software development accordance with the project requirements*		
Apply software methodo	ologies		
<ul> <li>Estimate project methodology*</li> </ul>	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	tools		
<ul> <li>Identify, assess/so appropriately*</li> </ul>	elect, install and utilize code versioning tool		
Conduct Testing			
Determine testing	requirements and objectives as required*		
Obtain and incorporate	orate feedback to relevant changes		
Administer alteration	ons or changes to the code		
<ul> <li>Evaluate results of system</li> </ul>	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		
, ,	eraction 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						
<ul> <li>Apply client-side script structures/libraries, best practices and style guides with script tags and document object model (DOM) as required in the areas*</li> </ul>						
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:						

Qualification Title:	WEB DEVELOPMENT NC III		
COC 3	Developing Website Backend Systems		
Units of Competency Covered	<ul><li>Utilize Software Methodologies</li><li>Develop Website Backend Systems</li></ul>		
Instruction: Read each question and	I check the appropriate box to indicate your answe	er.	
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		
<ul> <li>Estimate project methodology*</li> </ul>	effort and duration based on software		
Create project sche	dule based on software methodology		
Monitor project flow	based on project schedule		
Utilize code versioning to	ools		
appropriately*	elect, install and utilize code versioning tool		
Conduct Testing			
Determine testing relationships	equirements and objectives as required*		
Obtain and incorporate an	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*		

Configure web/cloud server							
<ul> <li>Identify and utilize web/cloud server provider b requirements</li> </ul>	ased on project						
<ul> <li>Select server specifications and install requirements</li> </ul>	red web server						
Configure web server user access based on selected/required web/cloud server*							
<ul> <li>Install and configure database server, HTTPS/S firewalls*</li> </ul>							
<ul> <li>Comply the uptime requirements based on w selected and project requirements</li> </ul>	outly are aparent requirement assess of mean control of						
Design Databases							
Identify attributes and data types based on project	requirements						
Develop entity relationship diagram based on proje	Develop entity relationship diagram based on project requirements						
<ul> <li>Design data structures*</li> </ul>							
Develop Server Side Scripts							
Identify/Select appropriate side scripting language							
<ul> <li>Design and develop CRUD server side scripts and based on project requirements*</li> </ul>							
Develop web application using Model-View-Controller (I	MVC) framework						
Select and install appropriate MVC framework on s	server						
<ul> <li>Program and test web application using MVC*</li> </ul>							
I agree to undertake assessment in the knowledge that be used for professional development purposes an concerned assessment personnel and my manager/sup	d can only be a		•				
Candidate's signature:	Date:						

Reference No.								

Qualification Title:	WEB DEVELOPMENT NC III					
FULL Units of Competency Covered	<ul> <li>Utilize Software Methodologies</li> <li>Develop Responsive Web Design</li> <li>Create Interactive Websites</li> <li>Develop Website Backend Systems</li> </ul>					
answer.	I check the appropriate box to indicate your	YES	NO			
COC1 Utilize Software Metho	dology					
Identify project requirem	ents and software methodology					
Determine project r	equirements and identify 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 schedule based on software methodology						
Monitor project flow	based on project schedule					
Utilize code versioning to	ools					
<ul> <li>Identify, assess/se appropriately*</li> </ul>	lects, installs and utilize code versioning tool					
Conduct Testing						
Determine testing re	equirements and objectives as required*					
Obtain and incorpor	ate feedback to relevant changes					
Administer alteration	ns or changes to the code					
Evaluate results of system	the system test to determine acceptability of the					
Develop Responsive V						
Perform research and a	,	1				
insights	of information from the clients and social media					
<ul> <li>Prepare list of re branding</li> </ul>	elevant 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	
<ul> <li>Develop sitemap, moodboards and wireframe with content creations, photos and graphics*</li> </ul>	
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*	
<ul> <li>Apply user experience principles to the brand guidelines*</li> </ul>	
Make revisions based on client's requests	
Develop HTML/CSS website	
<ul> <li>Perform slicing of mock-ups based on approved design*</li> </ul>	
<ul> <li>Create HTML pages and CSS with navigation menu, hyperlinks and website contents are added on pages*</li> </ul>	
<ul> <li>Validate, implement revisions and submit HTML/CSS website on W3C standards*</li> </ul>	
Prepare final HTML/CSS website for publishing*	
Utilize File Transfer Protocol (FTP) Program for uploading*	
Use/Deploy website content management system (CMS)	
<ul> <li>Identify and install Content Management System (CMS) as required using FTP*</li> </ul>	
<ul> <li>Select ready-made template and incorporate ready-made plugins to CMS</li> </ul>	
Upload website contents to CMS based on project requirements	
<ul> <li>Implement revisions, submit and publish website with CMS based on approved design*</li> </ul>	
Perform search engine optimization (SEO)	
Finalize list of keywords based on research and analytics	
Conduct checking of website to ensure latest SEO standards*	
<ul> <li>Add search engine tools to the website for tracking and measurement</li> </ul>	
<ul> <li>Perform social media and website housekeeping based on project requirements</li> </ul>	
COC2 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*	
	Q

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	
<ul> <li>Identify functional and non-functional requirements based on project specifications</li> </ul>	
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	
<ul> <li>Apply client-side script structures/libraries, best practices and style guides with script tags and document object model (DOM) as required in the areas*</li> </ul>	
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*	
COC3	
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*	
<ul> <li>Install and configure database server, HTTPS/SSL, security and firewalls*</li> </ul>	
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 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 fra	mework on server			
<ul> <li>Program and test web application usir</li> </ul>	ng 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:			