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### SELF-ASSESSMENT GUIDE

Qualification Title:	<b>WEB DEVELOPMENT NC III</b>		
COC 1	<b>Developing Responsive Web Design</b>		
Units of Competency Covered	<ul style="list-style-type: none"> <li>• <b>Utilize Software Methodologies</b></li> <li>• <b>Develop Responsive Web Design</b></li> </ul>		
<p>Instruction: Read each question and check the appropriate box to indicate your answer.</p>			
<b>Can I?</b>		<b>YES</b>	<b>NO</b>
<b>Utilize Software Methodology</b>			
Identify project requirements and software methodology			
<ul style="list-style-type: none"> <li>• Determine project requirements and identify resources*</li> </ul>			
<ul style="list-style-type: none"> <li>• Select and assess appropriate type of software development methodologies in accordance with the project requirements*</li> </ul>			
Apply software methodologies			
<ul style="list-style-type: none"> <li>• Estimate project effort and duration based on software methodology*</li> </ul>			
<ul style="list-style-type: none"> <li>• Create project schedule based on software methodology</li> </ul>			
<ul style="list-style-type: none"> <li>• Monitor project flow based on project schedule</li> </ul>			
Utilize code versioning tools			
<ul style="list-style-type: none"> <li>• Identify, assess/select, install and utilize code versioning tool appropriately*</li> </ul>			
Conduct Testing			
<ul style="list-style-type: none"> <li>• Determine testing requirements and objectives as required*</li> </ul>			
<ul style="list-style-type: none"> <li>• Obtain and incorporate feedback to relevant changes</li> </ul>			
<ul style="list-style-type: none"> <li>• Administer alterations or changes to the code</li> </ul>			
<ul style="list-style-type: none"> <li>• Evaluate results of the system test to determine acceptability of the system</li> </ul>			
<b>Develop Responsive Web Design</b>			
Perform research and analytics			
<ul style="list-style-type: none"> <li>• Perform gathering of information from the clients and social media insights</li> </ul>			
<ul style="list-style-type: none"> <li>• Prepare list of relevant topics based on business noise and branding</li> </ul>			
Identify and prepare design requirements			
<ul style="list-style-type: none"> <li>• Determine client specifications/requirements for project</li> </ul>			

<ul style="list-style-type: none"> <li>• Determine resources, budget and schedule for project as per client's requirements</li> </ul>		
<ul style="list-style-type: none"> <li>• List and match client's goals with the research and analysis</li> </ul>		
<ul style="list-style-type: none"> <li>• Develop sitemap, moodboards and wireframe with content creations, photos and graphics*</li> </ul>		
Design and develop user-friendly responsive web interface		
<ul style="list-style-type: none"> <li>• Identify and utilize design tools based on project requirements</li> </ul>		
<ul style="list-style-type: none"> <li>• Prepare mock-ups and apply to user interface components*</li> </ul>		
<ul style="list-style-type: none"> <li>• Apply user experience principles to the brand guidelines*</li> </ul>		
<ul style="list-style-type: none"> <li>• Make revisions based on client's requests</li> </ul>		
Develop HTML/CSS website		
<ul style="list-style-type: none"> <li>• Perform slicing of mock-ups based on approved design*</li> </ul>		
<ul style="list-style-type: none"> <li>• Create HTML pages and CSS with navigation menu, hyperlinks and website contents are added on pages*</li> </ul>		
<ul style="list-style-type: none"> <li>• Validate, implement revisions and submit HTML/CSS website on W3C standards*</li> </ul>		
<ul style="list-style-type: none"> <li>• Prepare final HTML/CSS website for publishing*</li> </ul>		
<ul style="list-style-type: none"> <li>• Utilize File Transfer Protocol (FTP) Program for uploading*</li> </ul>		
Use/Deploy website content management system (CMS)		
<ul style="list-style-type: none"> <li>• Identify and install Content Management System (CMS) as required using FTP*</li> </ul>		
<ul style="list-style-type: none"> <li>• Select ready-made template and incorporate ready-made plugins to CMS</li> </ul>		
<ul style="list-style-type: none"> <li>• Upload website contents to CMS based on project requirements</li> </ul>		
<ul style="list-style-type: none"> <li>• Implement revisions, submit and publish website with CMS based on approved design*</li> </ul>		
Performs search engine optimization (SEO)		
<ul style="list-style-type: none"> <li>• Finalize list of keywords based on research and analytics</li> </ul>		
<ul style="list-style-type: none"> <li>• Conduct checking of website to ensure latest SEO standards*</li> </ul>		
<ul style="list-style-type: none"> <li>• Add search engine tools to the website for tracking and measurement</li> </ul>		
<ul style="list-style-type: none"> <li>• Perform social media and website housekeeping based on project requirements</li> </ul>		
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.		
<b>Candidate's signature:</b>	<b>Date:</b>	

*NOTE: \* Critical Aspects of Competency*

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## SELF-ASSESSMENT GUIDE

Qualification Title:	<b>WEB DEVELOPMENT NC III</b>		
COC 2	<b>Creating Interactive Websites</b>		
Units of Competency Covered	<ul style="list-style-type: none"> <li>• <b>Utilize Software Methodologies</b></li> <li>• <b>Create Interactive Websites</b></li> </ul>		
Instruction: Read each question and check the appropriate box to indicate your answer.			
<b>Can I?</b>	<b>YES</b>	<b>NO</b>	
<b>Utilize Software Methodology</b>			
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/select, install 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			
<b>Create Interactive Websites</b>			
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 page in accordance with the initial specifications and plans*			

Gather and review specifications and requirements		
<ul style="list-style-type: none"> <li>Identify functional and non-functional requirements based on project specifications</li> </ul>		
<ul style="list-style-type: none"> <li>Select client-side script framework based on the project requirements for web application*</li> </ul>		
<ul style="list-style-type: none"> <li>Determine scope of the project (minimum requirements with FURPS)</li> </ul>		
<ul style="list-style-type: none"> <li>Determine budget, resources and schedule in the website/project requirements</li> </ul>		
Apply client-side script to HTML/CSS		
<ul style="list-style-type: none"> <li>Prepare code editor using web design and application with appropriate major browser</li> </ul>		
<ul style="list-style-type: none"> <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		
<ul style="list-style-type: none"> <li>Test client-side script syntax using a browser*</li> </ul>		
<ul style="list-style-type: none"> <li>Utilize debugging software/applications and client-side script code checkers to fix errors and use minification tools as necessary*</li> </ul>		
<ul style="list-style-type: none"> <li>Utilize content distribution network (CDN) from servers to deliver client-side script files to improve performance*</li> </ul>		
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.		
<b>Candidate's signature:</b>	<b>Date:</b>	

*NOTE: \* Critical Aspects of Competency*

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### SELF-ASSESSMENT GUIDE

Qualification Title:	<b>WEB DEVELOPMENT NC III</b>		
COC 3	<b>Developing Website Backend Systems</b>		
Units of Competency Covered	<ul style="list-style-type: none"> <li>• <b>Utilize Software Methodologies</b></li> <li>• <b>Develop Website Backend Systems</b></li> </ul>		
Instruction: Read each question and check the appropriate box to indicate your answer.			
<b>Can I?</b>		<b>YES</b>	<b>NO</b>
<b>Utilize Software Methodology</b>			
Identify project requirements and software methodology			
• Determine project requirements and identifies 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/select, install 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			
<b>Develop Website Backend Systems</b>			
Develop a Project Plan			
• Determine project requirements and identify resources			
• Prepare and present project plan based on project requirements*			

Configure web/cloud server		
<ul style="list-style-type: none"> <li>Identify and utilize web/cloud server provider based on project requirements</li> </ul>		
<ul style="list-style-type: none"> <li>Select server specifications and install required web server software based on project requirements</li> </ul>		
<ul style="list-style-type: none"> <li>Configure web server user access based on selected/required web/cloud server*</li> </ul>		
<ul style="list-style-type: none"> <li>Install and configure database server, HTTPS/SSL, security and firewalls*</li> </ul>		
<ul style="list-style-type: none"> <li>Comply the uptime requirements based on web/cloud server selected and project requirements</li> </ul>		
Design Databases		
<ul style="list-style-type: none"> <li>Identify attributes and data types based on project requirements</li> </ul>		
<ul style="list-style-type: none"> <li>Develop entity relationship diagram based on project requirements</li> </ul>		
<ul style="list-style-type: none"> <li>Design data structures*</li> </ul>		
Develop Server Side Scripts		
<ul style="list-style-type: none"> <li>Identify/Select appropriate side scripting language</li> </ul>		
<ul style="list-style-type: none"> <li>Design and develop CRUD server side scripts and web service/API based on project requirements*</li> </ul>		
Develop web application using Model-View-Controller (MVC) framework		
<ul style="list-style-type: none"> <li>Select and install appropriate MVC framework on server</li> </ul>		
<ul style="list-style-type: none"> <li>Program and test web application using MVC*</li> </ul>		
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.		
<b>Candidate's signature:</b>	<b>Date:</b>	

*NOTE: \* Critical Aspects of Competency*

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### SELF-ASSESSMENT GUIDE

Qualification Title:	<b>WEB DEVELOPMENT NC III</b>																		
FULL Units of Competency Covered	<ul style="list-style-type: none"> <li>• <b>Utilize Software Methodologies</b></li> <li>• <b>Develop Responsive Web Design</b></li> <li>• <b>Create Interactive Websites</b></li> <li>• <b>Develop Website Backend Systems</b></li> </ul>																		
Instruction: Read each question and check the appropriate box to indicate your answer.																<b>YES</b>		<b>NO</b>	
<b>COC1</b>																			
<b>Utilize Software Methodology</b>																			
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																			
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• 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																			
<b>Develop Responsive Web Design</b>																			
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• Prepare list of relevant topics based on business noise and branding																			

Identify and prepare design requirements		
• Determine client specifications/requirements for project		
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• List and match client's goals with the research and analysis		
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• 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		
<b>COC2</b>		
<b>Utilize Software Methodology</b>		
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*		

<ul style="list-style-type: none"> <li>• Create project schedule based on software methodology</li> </ul>		
<ul style="list-style-type: none"> <li>• Monitor project flow based on project schedule</li> </ul>		
Utilize code versioning tools		
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<ul style="list-style-type: none"> <li>• Utilize content distribution network (CDN) from servers to deliver client-side script files to improve performance*</li> </ul>		
<b>COC3</b>		
<b>Utilize Software Methodology</b>		
Identify project requirements and software methodology		
<ul style="list-style-type: none"> <li>• Determine project requirements and identify resources*</li> </ul>		

<ul style="list-style-type: none"> <li>• Select and assess appropriate type of software development methodologies in accordance with the project requirements*</li> </ul>		
Apply software methodologies		
<ul style="list-style-type: none"> <li>• Estimate project effort and duration based on software methodology*</li> </ul>		
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<b>Develop Website Backend Systems</b>		
Develop a Project Plan		
<ul style="list-style-type: none"> <li>• Determine project requirements and identify resources</li> </ul>		
<ul style="list-style-type: none"> <li>• Prepare and present project plan based on project requirements*</li> </ul>		
Configure web/cloud server		
<ul style="list-style-type: none"> <li>• Identify and utilize web/cloud server provider based on project requirements</li> </ul>		
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<ul style="list-style-type: none"> <li>• Configure web server user access based on selected/required web/cloud server*</li> </ul>		
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<ul style="list-style-type: none"> <li>• Identify/Select appropriate side scripting language</li> </ul>		
<ul style="list-style-type: none"> <li>• Design and develop CRUD server side scripts and web service/API based on project requirements*</li> </ul>		
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• 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.		
<b>Candidate's signature:</b>	<b>Date:</b>	

*NOTE: \* Critical Aspects of Competency*