Reference No.														

SELF-ASSESSMENT GUIDE

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 and check the appropriate box to indicate your answer.			
Can I?		YES	NO
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/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			
Develop Responsive Web Design			
Perform research and analytics			
• Perform gathering of information from the clients and social media insights			
• Prepare list of relevant topics based on business noise and branding			
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*		
Performs 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		
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: * Critical Aspects of Competency

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

Reference No.																			

SELF-ASSESSMENT GUIDE

Qualification Title:	**WEB DEVELOPMENT NC III**		
COC 2	**Creating Interactive Websites**		
Units of Competency Covered	• **Utilize Software Methodologies** • **Create Interactive Websites**		
Instruction: Read each question and check the appropriate box to indicate your answer.			
Can I?		**YES**	**NO**
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/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			
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*		
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: * Critical Aspects of Competency*

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Reference No.														

SELF-ASSESSMENT GUIDE

Qualification Title:	**WEB DEVELOPMENT NC III**
COC 3	**Developing Website Backend Systems**
Units of Competency Covered	• **Utilize Software Methodologies** • **Develop Website Backend Systems**
Instruction: Read each question and check the appropriate box to indicate your answer.	

Can I?	**YES**	**NO**
Utilize Software Methodology		
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		
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 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:**	

*NOTE: * Critical Aspects of Competency*

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

Reference No.															

SELF-ASSESSMENT GUIDE

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 question and check the appropriate box to indicate your answer.		YES	NO
DEVELOPING RESPONSIVE WEB DESIGN			
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 Responsive Web Design			
Perform research and analytics			
• Perform gathering of information from the clients and social media insights			
• Prepare list of relevant topics based on business noise and branding			

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 language		11
• 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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