

Reference No.																	
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SELF-ASSESSMENT GUIDE

Qualification Title:	WEB DEVELOPMENT NC III															
COC 1	Developing Responsive Web Design															
Units of Competency Covered	<ul style="list-style-type: none"> • Utilize Software Methodologies • Develop Responsive Web Design 															
<p>Instruction: Read each question and check the appropriate box to indicate your answer.</p>																
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																

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

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SELF-ASSESSMENT GUIDE

Qualification Title:	WEB DEVELOPMENT NC III																	
COC 2	Creating Interactive Websites																	
Units of Competency Covered	<ul style="list-style-type: none"> • 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 page in accordance with the initial specifications and plans*																		

Gather and review specifications and requirements		
<ul style="list-style-type: none"> Identify functional and non-functional requirements based on project specifications 		
<ul style="list-style-type: none"> Select client-side script framework based on the project requirements for web application* 		
<ul style="list-style-type: none"> Determine scope of the project (minimum requirements with FURPS) 		
<ul style="list-style-type: none"> Determine budget, resources and schedule in the website/project requirements 		
Apply client-side script to HTML/CSS		
<ul style="list-style-type: none"> Prepare code editor using web design and application with appropriate major browser 		
<ul style="list-style-type: none"> 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		
<ul style="list-style-type: none"> Test client-side script syntax using a browser* 		
<ul style="list-style-type: none"> Utilize debugging software/applications and client-side script code checkers to fix errors and use minification tools as necessary* 		
<ul style="list-style-type: none"> 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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SELF-ASSESSMENT GUIDE

Qualification Title:	WEB DEVELOPMENT NC III		
COC 3	Developing Website Backend Systems		
Units of Competency Covered	<ul style="list-style-type: none"> • Utilize Software Methodologies • Develop Website Backend Systems 		
<p>Instruction: Read each question and check the appropriate box to indicate your answer.</p>			
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		
<ul style="list-style-type: none"> Identify and utilize web/cloud server provider based on project requirements 		
<ul style="list-style-type: none"> Select server specifications and install required web server software based on project requirements 		
<ul style="list-style-type: none"> Configure web server user access based on selected/required web/cloud server* 		
<ul style="list-style-type: none"> Install and configure database server, HTTPS/SSL, security and firewalls* 		
<ul style="list-style-type: none"> Comply the uptime requirements based on web/cloud server selected and project requirements 		
Design Databases		
<ul style="list-style-type: none"> Identify attributes and data types based on project requirements 		
<ul style="list-style-type: none"> Develop entity relationship diagram based on project requirements 		
<ul style="list-style-type: none"> Design data structures* 		
Develop Server Side Scripts		
<ul style="list-style-type: none"> Identify/Select appropriate side scripting language 		
<ul style="list-style-type: none"> Design and develop CRUD server side scripts and web service/API based on project requirements* 		
Develop web application using Model-View-Controller (MVC) framework		
<ul style="list-style-type: none"> Select and install appropriate MVC framework on server 		
<ul style="list-style-type: none"> 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.		
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SELF-ASSESSMENT GUIDE

Qualification Title:	WEB DEVELOPMENT NC III		
FULL Units of Competency Covered	<ul style="list-style-type: none"> • 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	
COC1			
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		
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• 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		
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*		

<ul style="list-style-type: none"> • Create project schedule based on software methodology 		
<ul style="list-style-type: none"> • Monitor project flow based on project schedule 		
Utilize code versioning tools		
<ul style="list-style-type: none"> • Identify, assess/selects, installs and utilize code versioning tool appropriately* 		
Conduct Testing		
<ul style="list-style-type: none"> • Determine testing requirements and objectives as required* 		
<ul style="list-style-type: none"> • Obtain and incorporate feedback to relevant changes 		
<ul style="list-style-type: none"> • Administer alterations or changes to the code 		
<ul style="list-style-type: none"> • Evaluate results of the system test to determine acceptability of the system 		
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<ul style="list-style-type: none"> • Utilize debugging software/applications and client-side script code checkers to fix errors and use minification tools as necessary* 		
<ul style="list-style-type: none"> • 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		
<ul style="list-style-type: none"> • Determine project requirements and identify resources* 		

<ul style="list-style-type: none"> • Select and assess appropriate type of software development methodologies in accordance with the project requirements* 		
Apply software methodologies		
<ul style="list-style-type: none"> • Estimate project effort and duration based on software methodology* 		
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<ul style="list-style-type: none"> • Administer alterations or changes to the code 		
<ul style="list-style-type: none"> • Evaluate results of the system test to determine acceptability of the system 		
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Develop a Project Plan		
<ul style="list-style-type: none"> • Determine project requirements and identify resources 		
<ul style="list-style-type: none"> • Prepare and present project plan based on project requirements* 		
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<ul style="list-style-type: none"> • Identify and utilize web/cloud server provider based on project requirements 		
<ul style="list-style-type: none"> • Select server specifications and install required web server software based on project requirements 		
<ul style="list-style-type: none"> • Configure web server user access based on selected/required web/cloud server* 		
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<ul style="list-style-type: none"> • Identify attributes and data types based on project requirements 		
<ul style="list-style-type: none"> • Develop entity relationship diagram based on project requirements 		
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Develop Server Side Scripts		
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<ul style="list-style-type: none"> • 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*		
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*NOTE: * Critical Aspects of Competency*