

Reference No.															
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SELF-ASSESSMENT GUIDE

Qualification Title:	Mechatronics Servicing NC IV		
Units of Competency Covered	<ul style="list-style-type: none"> • Develop Advanced PLC and HMI Application Program • Commission Advanced PLC- and HMI-based Mechatronics and Automation Systems • Diagnose and Troubleshoot Advanced PLC- and HMI-based Mechatronics and Automation Systems 		
<p>Instruction: Read each question and check the appropriate box opposite each question to indicate your answer.</p>			
Can I?	YES	NO	
Develop Advanced PLC and HMI Application Program			
• Prepare advanced PLC and HMI application program using appropriate code*			
• Develop advanced PLC and HMI analog program instructions*			
• Download program using manufacturer's procedures*			
• Run the developed advanced PLC and HMI application program to ensure all syntax errors are corrected*			
• Test developed advanced PLC and HMI application program for user's acceptance*			
• Debug and test the developed application program*			
• Prepare final revision of the advanced PLC and HMI application program in softcopy and printed formats*			
Commission Advanced PLC- and HMI-based Mechatronics and Automation Systems			
• Plan and prepare commissioning procedures in line with job requirements*			
• Perform commissioning procedure in accordance with requirement without damage to the surrounding environment or services*			
• Check and test the commissioned mechatronics and automation system according to procedures & manufacturer's instructions*			

<ul style="list-style-type: none"> • Prepare documentation on commissioned mechatronics and automation system according to established procedures or manufacturer's instructions* 		
Diagnose and Troubleshoot Advanced PLC- and HMI-based Mechatronics and Automation Systems		
<ul style="list-style-type: none"> • Plan and prepare diagnosis and troubleshooting of faults in line with job requirements* 		
<ul style="list-style-type: none"> • Diagnose and troubleshoot fault or problem in the mechatronics and automation system* 		
<ul style="list-style-type: none"> • Manage and implement contingency measures in accordance with established procedures* 		
<ul style="list-style-type: none"> • Check and test mechatronics and automation system and associated equipment to ensure safe operation* 		
<ul style="list-style-type: none"> • Rectify/Correct faults in the mechatronics and automation systems* 		
<ul style="list-style-type: none"> • Prepare/Complete documentation in accordance with the company requirements* 		
<p>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.</p>		
Candidate's signature:	Date:	

NOTE: * Critical Aspects of Competency