

**Information and Communications Technology Industry Training Advisory Committee
Software Products and Software Services (SW) branch
Unit of Competencies**

1. Title	Debug a program	
2. Code	ITSWDM403A	
3. Range	Locate and fix defects in a program with appropriate debugging tools in the context of development of software products / services within an organisation or for a client [Design Development Maintenance – Software Quality Assurance]	
4. Level	4	
5. Credit	1	
6. Competency	<p>6.1 Have the knowledge to select appropriate debugger</p> <p>6.2 Locate and fix the logical error</p> <p>6.3 Perform debugging of programs in a professional manner</p>	<p><u>Performance Requirement</u></p> <p>Be able to</p> <ul style="list-style-type: none"> ▪ understand the selection criteria for an appropriate debugger for debugging programs ▪ understand the various debuggers available <p>Be able to</p> <ul style="list-style-type: none"> ▪ select and make use of an appropriate debugger to help in debugging programs ▪ systematically locate any logical errors ▪ effectively fix the logical error, if any ▪ record the locations of the errors, if any, and the corresponding fixing methods <p>Be able to</p> <ul style="list-style-type: none"> ▪ debug programs in an efficient and effective manner ▪ follow organisation's standards and guidelines where applicable ▪ prepare the debugging report for stakeholders
7. Assessment Criteria	The integrated outcome requirements of this UoCs are the abilities to: (i) select appropriate debuggers to help debug programs; (ii) use debugger to locate and fix the bug; and (iii) prepare report on debugging.	
Remark		