

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

1. Title	Perform inspection for the program code and software documents (See Remark 1 for the meaning of "inspection")	
2. Code	ITSWDM506A	
3. Range	Perform inspection, walkthrough and review for the program code and software documents according to the Quality Assurance (QA) policies in the context of development of software products / services within an organisation or for a client [Design Development Maintenance – Software Quality Assurance]	
4. Level	5	
5. Credit	2	
6. Competency	<p>6.1 Have the knowledge to design checklists for inspecting program source and software documents</p> <p>6.2 Perform inspection of program source and software documents</p> <p>6.3 Revise and update the checklist after an inspection</p> <p>6.4 Perform inspection of program source and software documents professionally</p>	<p><b>Performance Requirement</b> Be able to identify the requirements of checklists (see Remark 3 &amp; 4) for inspecting program source and software documents</p> <p>Be able to</p> <ul style="list-style-type: none"> <li>▪ create checklists for inspecting program source and software documents</li> <li>▪ inspect the program source and software documents according to the items in the inspection checklist</li> <li>▪ determine the correctness and quality of program source and software documents after inspection</li> <li>▪ complete the relevant items in the checklist</li> </ul> <p>Be able to revise and update the items in an inspection checklist for future improvements</p> <p>Be able to perform an inspection of program source and software documents according to</p> <ul style="list-style-type: none"> <li>▪ the QA policies of the software project</li> <li>▪ the organization's guidelines</li> <li>▪ any (local and international) laws and regulatory requirements, if applicable</li> </ul>
7. Assessment Criteria	The integrated outcome requirements of this UoCs are the abilities to: (i) rigorously perform inspection of program source and software documents according to the QA policies and procedures according to the developed inspection checklist; and (ii) evaluate the correctness and quality of the program source and software documents after inspection.	
Remark	<p>1. In this UoCs, "inspection" generally means "inspection", "walk-through" and "review" of certain software artefacts such as program source and software documents.</p> <p>2. In this UoCs, "software document" generally means any document related to the software such as software requirements specification and various software design documents.</p> <p>3. The inspection checklist should have at least the following categories:</p> <ol style="list-style-type: none"> <li>a) Architecture Review;</li> <li>b) User Interface;</li> <li>c) Data Reference;</li> <li>d) Data Declaration;</li> <li>e) Computation;</li> </ol>	

	<ul style="list-style-type: none"><li>f) Comparison;</li><li>g) Control Flow;</li><li>h) Input/Output; and</li><li>i) Interface.</li></ul> <p>4. The inspection checklist can be checked by another professional/third party.</p>
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