

Overview

This standard is about undertaking coding for simple business problems.

It involves applying the basic concepts and techniques of developing programs for problem solving. This includes using an integrated coding development tool to design, implement, test, debug, and deploy simple programs.

This standard is for those who need to recognise and resolve routine digital technology problems to meet their own needs or as part of their duties.

Performance criteria

You must be able to:

1.
Plan a software program to solve a well defined business problem specification
2.
Design algorithms to handle user inputs and process data for simple problems in line with organisational procedures
3.
Produce code using basic programming constructs to a given design in line with organisational procedures
4.
Apply stepwise refinement to solve problems iteratively to produce the required functionality
5.
Debug and test software programs to identify and resolve programming defects
6.
Apply notation to software programs to identify programming features and variables to improve maintainability in line with organisational standards
7.
Document a program by producing release notes and guidance to assist users to operate the software correctly

Knowledge and understanding

You need to know and understand:

1. How to interpret a business problem specification
2.
The basic concepts of coding and how to apply them
3.
How to plan a software solution
4.
The basic principles of procedural computer programming
5.
How to design and use algorithms to capture user input and process data
6.
The steps involved in solving a business problem through coding a software solution and how to apply them
7. How to identify and implement the variables needed to produce functioning code
8.
The industry standard programming and scripting languages and their functions and syntax
9.
The basic techniques used to create code and how to apply them
10.
How to test and debug code to make it function correctly
11.
The sources of help, tips and techniques for producing effective code

TECHDUCO1

Perform coding for simple business problems



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Suite IT Users

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