Conceptual background and design processes

Describe what a high-level language is

Describe the differences between high and low level

Describe the characteristics of an interpreter

Describe the characteristics of a compiler

Describe the tools of an IDE

Control Structures

Gather structure (or control) processes

Programming constructs (procedures) in a program

Control the order of execution of statements

Perform a code walkthrough of a program

Translate a flowchart into a program sequence

Recognise the input/output states of the input function

Language features

Programming constructs (procedures)

Describe the function of different data types

Describe variable declaration, assignment, and initialisation

Use meaningful identifiers

Use appropriate naming conventions

Use variables in programs

Describe syntax and logic errors

Define runtime errors in programs

Define a validation check

Identify flowchart symbols (start, stop, input, output, subroutine)

Translate a flowchart into a program sequence

Design a flowchart for a program

Resources are updated regularly — the latest version is available at www.ncce.io/tcc.

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