Relational operators	
Symbol	**Description**
=	equal to
<>	not equal to
>	greater than
>=	greater than or equal to
<	less than
<=	less than or equal to

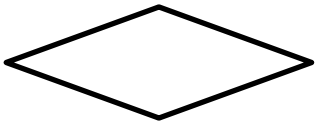
Logical operators	
Symbol	**Description**
AND	Returns true if both conditions are true.
OR	Returns true if any of the conditions are true.
NOT	Reverses the outcome of the expression; true becomes false, false becomes true.

Flowchart symbols

Denotes the start and end of an algorithm

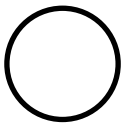
Denotes a process to be carried out

Denotes a sub-process



Denotes a decision to be made

Denotes input or output



Denotes a connection to part of a flowchart that cannot easily be linked using an unbroken flow arrow

Shows the logical flow of the program

Python commands

Handling basic input and output

- input()
- print()
- int()
- str()

Functions and variables

- def
- global

Selection

- if
- else
- elif
- case:

Iteration

- while
- for

Built-in functions and standard library commands

- import
- math

Numerical

- random()
- randint()
- uniform()
- sample()
- range()
- round()
- math.trunc()
- math.floor()
- math.ceil()
- max()
- min()
- count()

String handling

- isupper()
- islower()
- upper()
- lower()
- isalpha()
- split()
- len()

Using data structures (lists and arrays)

- index()

- append()
- insert()
- remove()
- count()
- pop()
- sort()
- in
- not in
- len()

Working with external text files

- open()
- write()
- close()
- read()
- readline()
- readlines()
- line.split()

Additional libraries and commands

For questions in Paper 1 and the Employer Set Project, students will be expected to have a working knowledge of these additional libraries:

- pandas
- Tkinter
- wxPython
- NumPy
- TensorFlow
- Matplotlib.

Appendix 2: Glossary of terms used

This is a summary of the key terms used to define the requirements in the components.

Term	Definition
Assess	Give careful consideration to all the factors or events that apply and identify which are the most important or relevant. Make a judgement on the importance of something, and come to a conclusion where needed.
Complete (diagram)	Complete a diagram or process flow that has already been started.
Complete (table)	Provide the missing information for a table/diagram so that it is complete (contains all the necessary information).
Describe	Present two (or more) linked descriptive points on characteristics, features, uses or processes. Do not need to include a justification or reason.
Develop (pseudocode)	Produce a section of code to provide a solution to a problem.
Discuss	Consider the different aspects in detail of an issue, situation, problem or argument, and how they interrelate.
Draw	Produce a diagram, either using a ruler or using freehand OR create a graphical or visual representation of information.
Evaluate	Consider various aspects of a subject's qualities in relation to its context, such as strengths and weaknesses, advantages and disadvantages, pros and cons. Come to a judgment supported by evidence, which will often be in the form of a conclusion.
Explain	Present one point that identifies a reason, way or importance and a second point that justifies/explains the first point. Where used, a third point is a further justification/explanation.
Give	Recall from memory a feature, characteristic or use.
Identify	Select the correct answer from the given context or stimulus.
Label	Correctly indicate parts of a diagram/image/graphical representation.
List	Recall from memory facts, dates, legal implications, etc. More than one.
State	Recall from memory a fact, date, legal implication, etc.

Assessment component	Assessment method	Duration	Marks	% Weighting	Timetable	Availability	Marking approach
Core Paper 1	Written examination paper	2.5 hours	100	33.33%	Set date and time	May/June November	Externally marked
Core Paper 2	Written examination paper	2.5 hours	100	33.33%	Set date and time	May/June November	Externally marked
Employer Set Project	Externally set project	14.5 hours	100	33.33%	Window	May/June November	Externally marked

Assessment component	Assessment method	Duration	Marks	% Weighting	Timetable	Availability	Marking approach
Digital: Digital Production, Design and Development	Externally set project	67 hours over 11 weeks	145	100%	Window	January–May	Externally marked