Microsoft Python Certification Overview

Topic	Details		
Types of Jobs	Python has become one of the most used programming languages and the Python certification is one of the most sought after requirements in the entire programming landscape. Although Python can be used for little projects, this programming language is used by many tech giants, such as Microsoft, Facebook, Netflix, Google, and even NASA. Hiring preference is given to those having a Python certification.		
About the Exam	Candidates for this exam should be able to recognize and write syntactically correct Python code, recognize data types supported by Python, and be able to recognize and write Python code that will logically solve a given problem.		
Exam Details	Exam Details		
	Required exam: 98–381		
	Number of questions 40 questions		
	Types of questions: Question types vary.		
	Length of test: 45 minutes		
	Passing score: Any score of 700 or greater is a pass. Any score below 700 is a fail.		
	Recommended experience Candidates are expected to have had, at a minimum, instruction and/or hands-on experience of approximately		
	100 hours with the Python programming language, be familiar with its features and capabilities, and understand how to write, debug, and maintain well-formed, well-documented Python code.		

Microsoft Python Certification Overview (Cont.)

Contain Domains	Domain	% of	Objectives
		Examination	Please note that the questions may test on but will not be
	D (O II	20. 25%	limited to the topics described in the bulleted text.
	Perform Operations	20–25%	Evaluate an expression to identify the data type Python will assign to each variable.
	Using Data Types and Operators		assign to each variable. o Identify str, int, float, and bool data types
	Operators		Perform data and data type operations.
			Convert from one data type to another type; construct
			data structures; perform indexing and slicing operations.
			Determine the sequence of execution based on operator
			precedence.
			 Assignment; Comparison; Logical; Arithmetic; Identity (is);
			Containment (in)
			Select the appropriate operator to achieve the intended result.
			o Assignment; Comparison; Logical; Arithmetic; Identity (is);
	2		Containment (in)
	Control Flow With	20–25%	Construct and analyze code segments that use branching statements.
	Decisions and Loops		statements. o if; elif; else; nested and compound conditional expressions
			Construct and analyze code segments that perform iteration.
			o while; for; break; continue; pass; nested loops and loops
			that include compound conditional expressions
	Perform Input and	20–25%	Construct and analyze code segments that perform file input
	Output Operations		and output operations.
			Open; close; read; write; append; check existence; delete;
			with statement
			Construct and analyze code segments that perform console input and output apprehiens.
			input and output operations. o Read input from console; print formatted text; use of
			command line arguments.
	Document and	15–20%	Document code segments using comments and documentation
	Structure Code		strings.
			 Use indentation, white space, comments, and
			documentation strings; generate documentation by using
			pydoc.
			Construct and analyze code segments that include function
			definitions.
	Dorform	F 100/	Call signatures; default values; return; def; pass Analyza detect, and five sada sagments that have arrors.
	Perform Troubleshooting and	5–10%	 Analyze, detect, and fix code segments that have errors. Syntax errors; logic errors; runtime errors
	Error Handling		Analyze and construct code segments that handle exceptions.
			o Try; except; else; finally; raise
	Perform Operations	1–5%	Perform basic operations using built-in modules.
	Using Modules and		Math; datetime; io; sys; os: path; random
	Tools		Solve complex computing problems by using built-in modules.
			Math; datetime; random
	Total	100%	