

Certified Python Developer (CPD)



Exam Guide: CPD-3.11



Introduction

The certified Python Developer (CPD) is meticulously designed to assess the foundational skills and knowledge of individuals in Python programming. This exam serves as a robust platform for evaluating the examinees' grasp of Python's standard libraries, which are pivotal in addressing basic to intermediate-level tasks.

Exam Topics

String Handling: String handling is a fundamental concept in Python as it allows manipulation and formatting of text data.

- **Concatenation (+):** This operation combines two or more strings into one: `string1 + string2`.
- **Slicing ([:]):** It extracts a portion of a string based on index positions: `string[start:end]`.
- **String methods like:** `.split()`, `.upper()`, `.lower()`, etc.

Control Flows: Control flow statements are the backbone of logic in programming.

- **Conditional Statements:** `if`, `elif`, and `else` are used to execute different blocks of code based on certain conditions.
- **Ternary Operators:** They allow for a concise way to test conditions: `x if condition else y`.

Loops: Loops are essential for performing repetitive tasks.

- **For Loops:** They iterate over a sequence (like lists, tuples, strings) executing a block of code for each item: `for item in sequence`.
- **While Loops:** They continually execute a block of code as long as a specified condition is true: `while condition`.
- **Break and Continue:** `break` exits the loop prematurely, while `continue` skips to the next iteration.

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Data Structures:

Data structures hold and organize data in a way that enables efficient operations.

- Lists: Ordered collections of items, which are mutable.
- Tuples: Ordered collections of items, which are immutable.
- Dictionaries: Collections of key-value pairs.
- Sets: Unordered collections of unique items.

Standard Functions in Python: Standard or built-in functions provide readily available functionality.

Modules and Packages: These are essential for code organization, reuse, and dependency management.

- Modules: A single file containing Python definitions and statements: `import module_name`.
- Packages: Collections of modules organized in a hierarchical manner.
- pip: The Python package installer used to install additional modules and packages: `pip install package_name`.

Instructions to candidate for Online Examination

These instructions are crucial for the candidate to review before the commencement of the Online exam:

- Candidates will receive the examination link via their email
- The examination link will be distributed on the last training day, but if it falls on a public holiday or weekend, it will be shared on the subsequent working day.
- Candidates are required to take the exam within 1 year after purchasing the exam without requesting any extension.
- Information regarding internet connectivity and examination instructions will accompany the examination link.

Examinations:

- After login, please fill out the requested details.
- For Multiple Choice Questions, candidates should select only one correct answer.
- The passing criteria will be displayed on the examination screen for the respective exam.
- The total examination duration will also be displayed on the screen.
- Candidates in need of special assistance should notify our office at least 7 days in advance.

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- Before final submission, candidates will have the opportunity to review and amend their answers.
- Reviewing answers post submission is not permitted.
- This examination is an open book format. Answers will only be saved upon clicking the final submit button.
- There is no negative marking system applied in this examination.
- The IPYQB CDP has one retake for free if the candidate failed in the first attempt.
- For a 3rd attempt, candidates will be required to pay the fee as communicated by IPYQB.
- IPYQB reserves the right to consider any examination with suspected copying as null and void during the evaluation or review of the answer sheet while declaring the results.
- Any name changes post certificate issuance will incur additional charges.

