

# Certified Professional Python Developer (CPPD)



Exam Guide: CPPD-3.11



## Introduction

The Certified Professional Python Developer Exam (CPPD) is a high-standard certification tailored for professionals aspiring to validate and showcase their advanced mastery in Python programming, testing candidates on an extensive array of advanced concepts and practical implementations within the Python ecosystem.

Acquiring the CPPD credential signifies a remarkable level of proficiency and a notable edge in the competitive landscape of Python development.

## Exam Topics

### Module 1: Advanced Function Concepts:

- Grasping and utilizing advanced function attributes, closures, and decorators for creating maintainable and efficient code structures.
- Advanced lambda functions and functional programming concepts for effective code modularization and reuse.

### Module 2: Exception Handling:

- Proficiency in identifying, handling, and propagating exceptions using try, except, finally, and raise clauses.
- Custom exception creation for effective error handling tailored to specific program requirements.

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### Module 3: Comprehensive Expressions:

- Mastery in crafting list, set, and dictionary comprehensions for streamlined data processing.
- Employing nested comprehensions and conditionals for solving intricate data manipulation tasks.

### Module 4: Regular Expressions (Regex):

- Development and interpretation of complex regular expressions for sophisticated text pattern recognition and manipulation.
- Utilization of Python's re module for performing various regex operations like search, match, findall, sub, and compile.

### Module 5: File Handling:

- Advanced techniques for reading from and writing to files, managing file contexts, and handling file exceptions.
- Employing different file formats and libraries for efficient data storage, retrieval, and processing.

### Module 6: Object-Oriented Programming (OOP):

- Profound understanding and application of advanced OOP principles including inheritance, encapsulation, and polymorphism.
- Designing, implementing, and testing complex system architectures adhering to OOP paradigms.

## 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.

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## 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.
- 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 CPPD has two retakes for free if the candidate failed in the first attempt.
- For a 4th 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.

