

PCEP Certified Entry-Level Python Programmer Training

Python Institute Authorized Training • Applied Technology Academy

This two-day course is designed for anyone new to programming . It covers the fundamentals of the Python 3 language, which is one of the most widely used languages in software development today . The course will teach you to create simple scripts that handle data types and structures, interact with users, and manage errors . While some experience with an object-oriented language is helpful, it is not required . A foundational competence with personal computing is recommended .

LEVEL	DURATION	EXPERIENCE	AVERAGE SALARY	LABS
Beginning	2 Days	Basic Programming	\$90,000	Yes

Course Overview

Python is one of the most widely used languages in software development today, particularly within the fields of data science, machine learning, and web development. Seasoned programmers and new programmers alike can apply Python skills to accomplish many different business goals. Python is an excellent choice of language for most professionals, and it's especially valuable as a first language for anyone wanting to get into programming.

In this course, you will apply the fundamentals of the Python 3 language and create simple scripts that process data types and structures, interact with the user, perform tasks based on decision-making logic, structure code for reuse, and handle errors.

Course Outline

- **Lesson 1: Setting Up Python and Developing a Simple Application**
 - Topic A: Set Up the Development Environment
 - Topic B: Write Python Statements
 - Topic C: Create a Python Application
 - Topic D: Prevent Errors
- **Lesson 2: Processing Simple Data Types**
 - Topic A: Process Integers and Strings
 - Topic B: Process Decimals, Floats, and Mixed Number Types
- **Lesson 3: Processing Data Structures**
 - Topic A: Process Ordered Data Structures
 - Topic B: Process Unordered Data Structures
- **Lesson 4: Writing Conditional Statements and Loops**

- Topic A: Write Conditional Statements
- Topic B: Write Loops
- **Lesson 5: Using Functions and Handling Exceptions**
 - Topic A: Define and Call Functions
 - Topic B: Perform Basic Exception Handling

Prerequisites

Some experience programming in an object-oriented language is helpful, but not required. This course will be useful to anyone new to programming.

To ensure your success in this course, you should have at least a foundational competence with personal computing. You can obtain this level of skills and knowledge by taking one of the following courses:

- Using Microsoft Windows 11
- Using Microsoft Windows 11: Transition from Windows 10
- Using Microsoft Windows 10 (Second Edition)

Follow-On Courses

- Python for Network Automation
- Python for Reverse Engineers
- Threat Hunting with Python
- Python for Data Sciences

Ready to enroll? Call 800.674.3550 or email Info@AppliedTechAc.com — private team cohorts, GSA MAS purchasing, military credentialing funding, VA GI Bill and VR&E and student financing available.