

DevNet Associate Course Resources

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Course Overview

The DevNet Associate course introduces the methodologies and tools of modern software development, applied to the IT and Network operations. It covers a 360 view of the domain including microservices, testing, containers and DevOps, as well as securely automating infrastructures with Application Programming Interfaces (APIs). Students completing this course, gain practical, relevant, hands-on lab experience, including programming in Python, using GIT and common data formats (JSON, XML and YAML), deploying applications as containers, using Continuous Integration/Continuous Deployment (CI/CD) pipelines and automating infrastructure using code. The course prepares students for entry-level software development and infrastructure automation jobs and prepares them for the [DevNet Associate certification exam](#).

By the end of the course, students will be able to:

- Use basic Python programming and Linux skills.
- Implement a development environment using DevNet resources.
- Use software development and design best practices.
- Create a secure REST API.
- Explain the processes and devices that support network connectivity.
- Use current technologies to deploy and secure applications and data in a cloud environment.
- Compare software testing and deployment methods in automation and simulation environments.
- Compare Cisco platforms used for collaboration, infrastructure management, and automation.
- This 70-hour, instructor-led course includes:
 - 8 Modules with 6 Videos, 23 Hands-on Labs and 5 Cisco Packet Tracer Activities,
 - 8 Quizzes, 8 Module Exam, Practice Final Exam, Final Exam, Skills Based Assessment,
 - Practice Exam for DEVASC Certification.

Requirements

The curriculum is appropriate for students at many education levels and types of institutions, including secondary vocational students, 2-year and 4-year college students and participants of coding bootcamps.

For Students

- Coding skills, equivalent to [PCAP: Programming Essentials in Python](#)
- Fundamental skills of networking, equivalent to [CCNA: Introduction to Networks](#)

For Instructors

- An accredited instructor who has completed one of the Instructor Training Options [[Presentation](#) & [Course FAQ](#)]

For Institutions

- An affiliation with an [Academy Support Center \(ASC\)](#)

Certification and Careers

The DevNet Associate course helps students develop workforce readiness skills for entry-level, software development and infrastructure automation jobs. The course also prepares students for the [DevNet Associate certification exam](#).