



MICROSOFT TRAINING

# Master Azure Automation Language Course For Success

*Master Azure Automation Language to script and automate your cloud tasks. Boost efficiency and manage Azure resources effectively.*

DURATION

**32 hours**

LEVEL

**Intermediate**

FORMAT

**Instructor-Led**

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- Globally Recognized Certification
  - Expert-Led Hands-On Training
  - Flexible Scheduling

Computer Pride | 1st Floor, ICEA Building, Kenyatta Avenue, Nairobi | [www.computer-pride.co.ke](http://www.computer-pride.co.ke)

## COURSE OVERVIEW

The Master Azure Automation Language Course For Success is an intensive, intermediate-level program designed to equip IT professionals with the comprehensive skills needed to fully leverage Microsoft Azure Automation. This course delves deep into the core capabilities of Azure Automation, covering its architecture, runbook creation, and advanced management techniques. Participants will gain hands-on experience in orchestrating cloud and hybrid environments, significantly reducing manual effort and improving operational efficiency across their Azure deployments. This 32-hour training focuses heavily on the practical application of scripting languages like PowerShell and Python within the Azure Automation framework. You will learn to develop, test, and deploy robust runbooks, manage configurations using Azure Desired State Configuration (DSC), and implement update management solutions. By mastering these critical automation languages and tools, you will be able to automate repetitive tasks, enforce consistent configurations, and ensure seamless operations, ultimately leading to more agile and reliable cloud infrastructures. Upon completion, you will possess the expertise to transform IT operations, making processes more efficient, scalable, and cost-effective. This certification not only enhances your technical prowess in Azure but also positions you as a valuable asset capable of driving significant operational improvements and innovation within any organization utilizing Microsoft Azure.

|          |              |
|----------|--------------|
| Duration | 32 hours     |
| Level    | Intermediate |
| Vendor   | Microsoft    |

## COURSE CURRICULUM

### 01 Module 1: Introduction to Azure Automation

- Understanding Azure Automation Service
- Automation Account components: Runbooks, Variables, Credentials, Connections
- Azure Automation architecture and capabilities
- Setting up your Azure Automation environment

### 02 Module 2: Mastering PowerShell Runbooks

- Fundamentals of PowerShell scripting for Azure
- Creating and testing PowerShell runbooks
- Working with Azure cmdlets and modules
- Input/Output parameters and error handling in runbooks

### 03 Module 3: Python Scripting for Azure Automation

- Introduction to Python for Azure Automation
- Developing Python runbooks for Azure tasks
- Utilizing Azure SDK for Python
- Integrating Python runbooks with Azure services

### 04 Module 4: Advanced Runbook Management and Scheduling

- Runbook types: PowerShell, Python, Workflow, Graphical
- Scheduling runbooks and managing jobs
- Source control integration for runbooks (GitHub, Azure DevOps)
- Implementing Hybrid Runbook Workers for on-premises automation

### 05 Module 5: Configuration Management with Azure DSC

- Introduction to Desired State Configuration (DSC) in Azure Automation
- Creating and managing DSC configurations
- Onboarding virtual machines to DSC
- Monitoring and remediation of DSC drift

## 06 Module 6: Update Management and Operational Insights

- Azure Automation Update Management solution
- Deploying and managing updates for Azure and hybrid VMs
- Integrating Azure Automation with Azure Monitor and Log Analytics
- Implementing alerts and diagnostics for automation jobs

## CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Azure Automation Specialist**
- > **Cloud DevOps Engineer**
- > **Senior Azure Administrator**

## FREQUENTLY ASKED QUESTIONS

### **Q: What specific scripting languages will I master for automation within this course, and how are they applied in Azure?**

This course provides in-depth mastery of both PowerShell and Python scripting languages specifically tailored for Azure Automation. You will learn to write, test, and deploy robust runbooks using PowerShell cmdlets for managing Azure resources and Python SDKs for programmatic interaction. Practical applications include automating VM lifecycle management, deploying resources, managing configurations, and orchestrating complex workflows across your Azure environment.

### **Q: How does mastering Azure Automation languages translate into implementing robust Infrastructure as Code (IaC) and configuration management strategies?**

Mastering Azure Automation languages, particularly PowerShell and Python, is crucial for effective IaC and configuration management. You will learn to create idempotent scripts and Desired State Configurations (DSC) that define and maintain the state of your infrastructure. This enables you to automate the provisioning, configuration, and consistent management of resources, ensuring that your environments adhere to defined standards and reducing configuration drift, which are cornerstones of mature IaC practices.

### **Q: What prerequisite skills or knowledge should I possess before enrolling in this intermediate "Master Azure Automation Language Course For Success"?**

To excel in this intermediate course, you should have foundational knowledge of Azure services, including Azure Portal navigation, virtual machines, and basic networking concepts. Prior experience with at least one scripting language (e.g., basic PowerShell or Python syntax) is highly recommended, as the course will build upon these foundations to teach advanced automation techniques specific to the Azure platform rather than starting with basic scripting fundamentals.

## ABOUT COMPUTER PRIDE



*East Africa's Premier IT Training Center*

With over 15 years of excellence, Computer Pride delivers globally recognized certification programs from leading technology vendors. Located on Kenyatta Avenue in Nairobi's CBD, our state-of-the-art facilities and expert instructors have empowered thousands of professionals across East Africa.

**15+**

Years of Excellence

**10,000+**

Professionals Trained

**50+**

Vendor Certifications

## READY TO ENROL?

Take the next step in your technology career.

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