

## Terraform Foundations

**Duration: 2 Days    Course Code: 8H500G**

### Overview:

The course introduces the principles and benefits of IaC and guides learners through the fundamentals of using Terraform to automate infrastructure management across various cloud platforms.

#### **This course will cover the following topics :**

- Introduction to Infrastructure as Code (IaC)
- Terraform Basics
- Terraform Resources and Providers
- Variables and Outputs
- State Management
- Modules and Workspaces
- Terraform Workflows
- Best Practices and Hands-On Labs

*Updated April 2026*

### Target Audience:

- IT Infrastructure Engineers
- DevOps Engineers
- Cloud Architects
- Site Reliability Engineers (SREs)
- IT Managers
- Consultants

### Objectives:

- **After this course participants should be able to:**
- Understand the principles and benefits of Infrastructure as Code (IaC)
- Install and configure Terraform.
- Write and interpret Terraform configuration files. (.tf)
- Define and manage infrastructure resources using providers.
- Implement dynamic configuration with variables and extract output values.
- Manage Terraform code with modules and manage multiple environments using workspaces.
- Automate Terraform execution and integrate with CI/CD pipelines.
- Adopt best practices for designing, securing, and sharing Terraform configurations.

### Prerequisites:

Participants should have notions of system and storage concepts.

### Testing and Certification

This course helps preparing Terraform Associate Certification

### Follow-on-Courses:

- 8H503G Advanced HCP Terraform

## Content:

### Day 1

- Introduction to Infrastructure as Code (IaC)
- Introduction to Terraform
- Command line client
- Language basics

### Day 2

- Providers
- Cloud Authentication
- Modules and Workspaces
- Intermediate Language

### Day 3

- Templates
- Provisioners
- Testing
- Recommended Patterns
- Best Practices

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## Additional Information:

Official course book provided to participants

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## Further Information:

For More information, or to book your course, please call us on 00 20 (0) 2 2269 1982 or 16142

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