

PowerShell Core: Fundamentals

WorkshopPLUS

Duration: 3 Days | **Focus Area:** Development and Operations | **Level:** 300

The WorkshopPLUS provides attendees with an introduction to using PowerShell Core. Through presentations, white-board discussions, demos, and goal-based labs, this workshop covers the following topics:

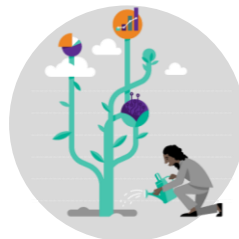
- PowerShell Core feature architecture
- Visual Studio Code
- Simple scripts/functions across different platforms
- Visual Studio Code Live Share feature
- Using Azure virtual machines
- PowerShell Core best practices
- Git and GitHub processes
- Debugging options in Visual Studio Code

OUTCOMES



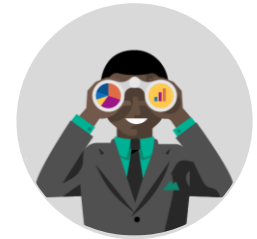
Skills

Gain insights into PowerShell Core and how to use it.



Best Practices

Learn how to work with Visual Studio Code and PowerShell Core.



Way Forward

Take what you've learned in the classroom and apply it to your day to day business.

PREREQUISITES

Participants that have existing experience performing automation tasks will receive the most value from this course.



Recommended Qualifications

- Have a good understanding of PowerShell
- Use PowerShell in you day to day business
- Be familiar with Linux Operating Systems

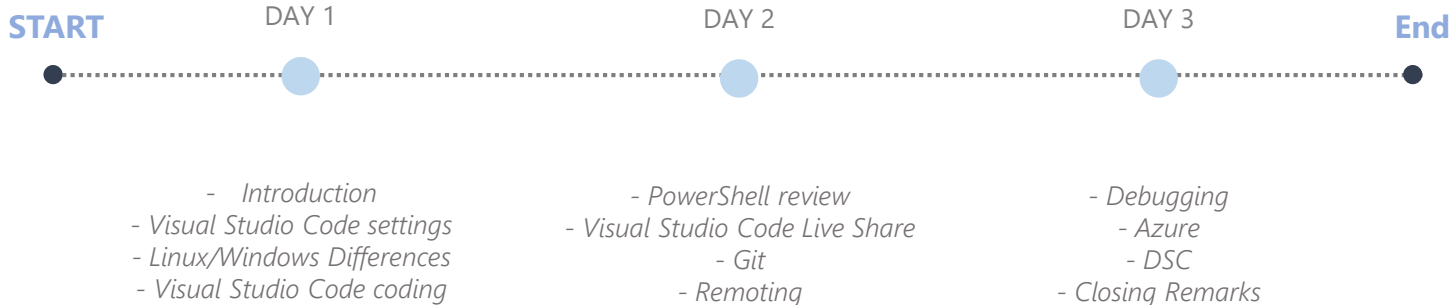


Hardware Requirements

- An Intel Core-i5-based PC
- 4 GB RAM
- 128 GB HDD
- Windows 7 SP1 or later
- Internet access with at least 1 Mbps bandwidth per student

AGENDA

Duration: 3 days



SYLLABUS

Introduction

- Overview of PowerShell Core
- PowerShell Core Requirements

Visual Studio Code settings

- ISE vs. VS Code
- VS Code settings
- VS Code navigation markdown
- VS Code user settings

Linux/Windows differences

- Overview of differences
- Object vs. text foundation
- Aliases

Visual Studio Code coding

- Overview of add-ins/extensions
- Shortcut techniques
- Key mappings

PowerShell concepts review

- PowerShell Review
- Objects and Types
- Functions
- Performance within PowerShell
- Coding examples

Visual Studio Code Collaboration

- VS Code Live share overview

Git

- Overview of Git
- Git vs. GitHub
- Working with repositories
- Work with push/pull options
- Reviewing branch/merge features
- Git rebase process

Remoting using PowerShell

- Overview of remoting

Debugging

- Overview of debugging
- Debugging using Live Share

Azure

- Overview of Azure
- Getting Connected
- Working with configurations

DSC

- Use declarative statements
- Control Operating Systems easily

Closing Remarks

- Best Practices

NEXT STEPS: If you are interested in a WorkshopPLUS for your organization, contact your Microsoft Account Representative.