COURSE SYLLABUS
Scripting and Automation with PowerShell

Hello, and welcome!

Have you ever found yourself writing or copying the same scripts over and over again? How about doing other repetitive tasks on your computer? Have you ever wondered about automating these tasks to save time and increase efficiency? The language and inner workings of a computer’s operating system can be complex and remarkable. However, they can also be tedious and subject to error. **Scripting and automation** can be the answer to these challenges. In this course, you will learn PowerShell, which is an automation and configuration management tool. You will learn how to create PowerShell scripts. This will enable you to take those repetitive tasks and turn them into time-saving and efficient programs.

We invite you to take a minute to learn about the course by reviewing the following information. This way, you will be better able to understand the expectations of the course as a whole. Then you can determine how to manage your time and efforts as you navigate through it.

Apply yourself and explore these concepts. We’re here to help you every step of the way!
Course Description and Competencies

What to Expect
In Scripting and Automation, you will gain the necessary skills to use PowerShell. With these skills, you will be able to write PowerShell scripts. And you will have the tools to manage environments for organizations ranging from startups to large enterprises. These skills are essential for all IT and server administrators.

This course contains two modules of content. Each is made up of several units. Each unit contains:

• An introduction
• Readings and resources
• Knowledge Checks
• A summary

Once you have engaged with the course material, you can prepare to turn in your two projects. You must earn a Competent score on each project to pass the course.

The first step is mastering the content.
Remember, you are in the right place. You can do this!

By the end of this course, you will be able to:

1. Implement tools that automate manual processes for an organization
2. Write scripts that automate configuration tasks

Note: You will have three attempts to pass each project.
Assessment Criteria

You will be assessed based upon the following criteria:

• Scripting Project 1: Automating Processes
• Scripting Project 2: Administering a Server

You must achieve a ranking of Competent on each project to pass the course.

Course Outline

Upon completion of this module, you will be able to:

1. **Automating Processes**
   - Execute PowerShell through the command line interface (CLI).
   - Configure the PowerShell scripting development environment.
   - Implement PowerShell scripts.

2. **Administering a Server**
   - Interact with a database server to automate the database administrator (DBA) tasks.
   - Manage Active Directory objects.
   - Manage cloud resources and virtual machines.
Technology Requirements

We want to be sure you have the tools to succeed! Visit the Computer System and Technology Requirements to learn about the technology you’ll need. If you have questions about your setup, contact support@academy.wgu.edu.

Key Contacts

Your Fellow Learners
Check out the Scripting and Automation Lobby in the course site! In this online community, you can ask questions and explore ideas. You can connect with your fellow learners. When you use this site, you will realize that other learners may have the same questions you have. You can all benefit from learning together!

Technical Support
If you encounter technical issues, be sure to contact the Help Desk. Just submit a Support Request for assistance.

Program Support
Do you have questions about your account? Our Academy Support Team has answers. They can help with billing, switching courses, and other requests. You can contact them at (888) 320-0540 or support@academy.wgu.edu.

Accommodations

WGU Academy provides compliant and accessible learning experiences. If you require accommodation, please contact us at the start of the course. You can email StudentAffairs@academy.wgu.edu or call (888) 320-0540. We are committed to ensuring that all students with disabilities have equal access to WGU Academy’s services and materials. We strive to use best practices for accessibility. Our goal is to conform to existing U.S. laws. These include the Americans with Disabilities Act and Section 504 and Section 508 of the Rehabilitation Act. Our learning management system (LMS) platform is Open edX. Open edX’s commitment to accessible content is published on their Website Accessibility Policy.