

# MOC-10962 Advanced Automated Administration with Windows PowerShell



**Kestus:** 24 akadeemilist tundi

Vana-Lõuna 39/1

[Vaata kõiki toimumiskuupäevi](#)

This is a three-day course that will teach students how to automate administrative tasks using Windows PowerShell 5.1. Students will learn core scripting skills such as creating advanced functions, writing controller scripts, and handling script errors. Students will learn how to work with Windows PowerShell Workflow, the REST API and XML and JSON formatted data files. Students will also learn how to use new administration tools such as Desired State Configuration (DSC) and Just Enough Administration (JEA) to configure and secure servers.

## **Target audience:**

This course is intended for IT professionals who are experienced in general Windows Server and Windows Client administration. Students should have a foundational knowledge of Windows PowerShell, which they can obtain by taking course 10961C: Automating Administration with Windows PowerShell.

In addition, this course provides scripting guidance for developers who support development environments and deployment processes.

## **After completing this course, students will be able to:**

- Create advanced functions.
- Use Microsoft .NET Framework and REST API in Windows PowerShell.
- Write controller scripts.
- Handle script errors.
- Use XML, JSON, and custom formatted data.
- Enhance server management with Desired State Configuration and Just Enough Administration.
- Analyze and debug scripts
- Understand Windows PowerShell workflow.

## **Prerequisites to the course (recommended):**

In addition to their professional experience, students who attend this training should already have the following technical knowledge:

- Experience with Windows networking technologies and implementation.
- Experience with Windows Server administration, maintenance, and troubleshooting.
- Experience with Windows Client administration, maintenance, and troubleshooting.
- Experience with using Windows PowerShell to run commands and to create basic non-modularized scripts.

Students who attend this training can meet the prerequisites by obtaining equivalent knowledge and skills through practical experience as a Windows System Administrator. Course 10961: Automating Administration with Windows PowerShell is strongly recommended to obtain prerequisite skills in Windows PowerShell.

## **The training topics and description:**

### **Module 1: Creating advanced functions**

This module explains how to parameterize a command into an advanced function.

### **Module 2: Using Microsoft .NET Framework and REST API in Windows PowerShell**

This module explains how to use Microsoft .NET Framework and REST API to supplement functionality that Windows PowerShell commands provide.

### **Module 3: Writing controller scripts**

This module explains how to combine advanced functions that perform a specific task and a controller script that provides a user interface or automates a business process.

### **Module 4: Handling script errors**

This module explains how to perform basic error handling in scripts.

### **Module 5: Using XML, JSON, and custom-formatted data**

This module explains how to read, manipulate, and write data in XML and JSON format.

**Module 6: Enhancing server management with Desired State Configuration and Just Enough Administration** This module explains how to write Desired State Configuration (DSC) configuration files, deploy those files to servers, and monitor servers' configurations. This module also explains how to restrict administrative access with Just Enough Administration (JEA).

**Module 7: Analyzing and debugging scripts** This module explains how to use native Windows PowerShell features to analyze and debug existing scripts.

**Module 8: Understanding Windows PowerShell Workflow** This module explains the features of the Windows PowerShell Workflow technology.

<https://www.microsoft.com/en-us/learning/course.aspx?cid=10962>

**Koolituse läbiviimise põhimõtted:** Koolitus toimub eesti keeles. Kõik koolituse teoreetilised osad on toetatud praktiliste harjutustega õpilaborites.

Maht: 24 akadeemilist tundi

Tunnistuse väljastamise eelduseks on koolitusel osalemine terves mahus.

The training price also includes:

teaching materials;

a trainer's consultation on the topics learned by e-mail after the training;

certificate.

As an added value, we offer:

free parking;

hot drinks with cookies;

fresh fruits;

lunch on each training day.

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## LISAINFO

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### Osalemise tingimused

Registreerudes e-poe, e-kirja või telefoni teel, saadame Teile arve ja täpsema info osalemise kohta.

Üks nädal enne koolitust saadame Teile e-kirjaga meenutuse osalemise infoga.

Koolitusel osalemine on nimeline, kuid saate osalejat tasuta muuta kuni koolitusprogrammi alguseni. Kui Te ei saa mingil põhjusel osaleda, palun andke sellest kindlasti teada e-posti aadressil [info@koolitus.ee](mailto:info@koolitus.ee) või telefonil 618 1727. Kui teatate koolitusel mitteosalemisest kuni nädal enne algust, pakume mõnd muud samaväärset koolitust samal hooajal või tagastame 100% tasutud koolituse maksumusest. Mitteosalemisest vähemalt 3 tööpäeva varem teatades, tagastame 50%. Muul juhul kuulub arve tasumisele. Raha tagastame etteantud summas juhul, kui pole tehtud koolituse korraldamisega seotud kulutusi (ostetud õppematerjale jms.). Koolitusele mitteilmumisel, sellest mitteteatamisel või koolituse poolelõpetamisel õppetasu ei tagastata.

IT Koolitus on Eesti Töötukassa koolituskaardi koostööpartner. Tutvuge koolituskaardi infoga [SIIN](#).

Täpsema info saamiseks võtke meiega ühendust telefonil 618 1727 või [info@koolitus.ee](mailto:info@koolitus.ee).