

McAfee Drive Encryption Administration Course

Education Services administration course

The McAfee® Drive Encryption Administration course from McAfee Education Services provides attendees with hands-on training on the design, setup, configuration, and management of this application. In addition, students will understand how to effectively implement the software in a complex enterprise.

Audience

System and network administrators, security personnel, auditors, and/or consultants concerned with network and system security should take this course.

Course Goals

- Install McAfee Drive Encryption.
- Synchronize with Active Directory.
- Protect endpoints.

Agenda at a Glance

Day 1

- Connected Security
- Managing Dashboards and Monitors
- Using the Policy Catalog and Managing Policies
- McAfee Agent
- Overview of Encryption Technologies and Computer Boot Concepts

Day 2

- Introduction to McAfee Drive Encryption
- McAfee® ePolicy Orchestrator® (McAfee ePO™) Installation of McAfee Drive Encryption
- Active Directory Configuration
- McAfee Drive Encryption Users
- Installing McAfee Drive Encryption onto Clients

Day 3

- Offline Activation
- McAfee Drive Encryption Policies
- McAfee Drive Encryption Dashboards and Reports
- McAfee Drive Encryption Administrative Users

Day 4

- Troubleshooting McAfee Drive Encryption
- Recovery Configuration
- Disaster Recovery with DETech
- McAfee Drive Encryption Scripting
- Uninstall

COURSE DESCRIPTION

Course Outline

About the Course

- Course Overview Introduction
- Topics Introduction
- Resources Introduction
- Acronyms and Terms Introduction
- McAfee Education Services Introduction
- McAfee Technical Support Introduction
- McAfee Security Content Release
- Notes Introduction
- Product Enhancement Request Introduction
- McAfee Community Introduction
- Helpful Links Introduction
- Classroom Lab Topology Introduction
- IP Addresses and Credentials Introduction
- Using VMware Workstation Introduction
- Using the Lab Guide Introduction

Module 1: Connected Security and McAfee ePO Overview Security Evolution

- The “Computer” Timeline
- Connected Security
- Breadth and Depth for Security
- McAfee ePO Solution Overview
- McAfee ePO Basic Solution Components
- Basic Solution Components
- How McAfee ePO Works

- Essential Features
- McAfee ePO Web Interface
- Interface: Menu Page
- Menu PageReporting
- Menu PageSystems
- Menu PagePolicy
- Menu PageSoftware
- Menu PageAutomation
- Menu PageUser Management
- Customizing the User Interface
- Architecture and Communication
- User Interface
- Functional Process Logic
- Data Storage
- Check Your Understanding

Module 2: Managing Dashboards and Monitors

- Dashboards Overview
- Accessing the Dashboards Page
- McAfee Default Dashboards (Read-Only)
- Other McAfee Dashboard Options
- Using Dashboards
- Duplicating a Dashboard
- Adding a Dashboard
- Assigning Dashboard Permissions
- Dashboard Permissions Guidelines
- Deleting a Dashboard

Recommended Pre-Work

It is recommended that students have a working knowledge of Microsoft Windows administration, system administration concepts, a basic understanding of computer security concepts, and a general understanding of Internet services.

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- Adding Monitors to a Dashboard
- Dashboards Server Settings
- Editing the Automatic Refresh Interval
- Assigning Default Dashboards
- Configuring Dashboard Monitors
- Moving and Resizing Dashboard Monitors
- Moving a Dashboard Monitor
- Resizing a Dashboard Monitor
- Removing Monitors from a Dashboard
- Concurrent Users (Console Connections)
- Recommendations
- Designing Dashboards
- Changing the Default Session Timeout
- Check Your Understanding

Module 3: Using the Policy Catalog and Managing Policies

- What Is a Policy?
- Policy Catalog Page
- Creating a New Policy
- Editing a Policy
- Duplicating a Policy
- Renaming or Deleting a Policy
- Policy Assignment and Inheritance
- Viewing Policy Assignments
- Locking Assignment and Enforcement
- Assigning Policy to Group System Tree

- Assigning Policy to Single System
- Assigning Policy to Multiple Managed Systems
- Viewing and Resetting Broken Inheritance
- Resetting Broken Inheritance
- Copying and Pasting Assignments
- When Policies are Enforced
- Permission Set for Policies
- Check Your Understanding

Module 4: McAfee Agent

- New for McAfee Agent 4.8
- McAfee Agent
- Agent ComponentsAgent
- Agent ComponentsScheduler
- Agent ComponentsUpdater
- How McAfee ePO Server Uses Agent GUID
- Agent-to-Server Communication Interval
- ASCI Communication Interruption Handling
- Agent-to-Server Communication
- Agent-Server Secure Communication Keys
- Communication after Agent Installation
- Typical Agent-to-Server Communication
- McAfee Agent-to-Product Communications
- Forcing Agent Activity from Server
- Wake-Up Calls and Wake-Up Tasks
- Configuring Agent Wake-Up
- Using System Tray Icon

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- Forcing McAfee Agent Activity from Client
- Viewing McAfee Agent Log
- Sorting McAfee Agent Log
- Reviewing Agent Log Information
- SuperAgent
- SuperAgent Communication
- Agent Files and Directories
- Sitelist.xml
- McAfee Agent Log Files
- Using Log Files
- Installation Folders
- Check Your Understanding
- Lab Exercises

Module 5: Overview of Encryption Technologies and Computer Boot Concepts

- Safeguarding Data
- Protection from Data Loss
- Data Privacy Laws
- Safeguarding Data with Encryption
- Difference Between Disk and File Encryption
- Difference Between Disk and File Encryption
- Common Enterprise Requirements
- Check Your Understanding
- Encryption Concepts
- Basics of Encryption
- Importance of Key Length

- Symmetric Keys
- Advanced Encryption Standards
- Key Exchange
- Asymmetric Keys
- Cryptographic Hash Functions
- Authentication Methods
- The Computer Boot Process
- The Computer Boot Process
- Boot Process
- Computer Boot
- Check Your Understanding

Module 6: Introduction to McAfee Drive Encryption

- McAfee Drive Encryption Defined
- McAfee Data Protection Portfolio for Endpoint
- Security Features of McAfee Drive Encryption
- Check your Understanding
- McAfee Drive Encryption Components
- McAfee Drive Encryption Overview (from McAfee ePO Server)
- McAfee Drive Encryption Overview (from Client)
- McAfee Drive Encryption Pre-Boot Environment
- System Boot Sequence—No McAfee Drive Encryption
- System Boot Sequence—With McAfee Drive Encryption
- McAfee Drive Encryption
- McAfee Drive Encryption Keys

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- McAfee Drive Encryption Tokens
- McAfee Drive Encryption Key Storage
- User Logon Process
- Authentication Security Models for Windows
- GINA Logon Process with McAfee Drive Encryption
- Credential Provider Logon Process with McAfee Drive Encryption
- User Passwords
- Resources
- Check Your Understanding

Module 7: Solidcore Client

- Pre-Installation Considerations
- Before Installing McAfee Drive Encryption 7.1
- Pre-Installation Considerations
- Network Considerations—Open Ports
- McAfee ePO Server Hardware Requirements
- McAfee ePO Software Requirements
- Client Requirements
- McAfee Drive Encryption Software
- McAfee Download Site
- Supported Tokens and Readers
- Check your Understanding
- Downloading the Software
- McAfee Drive Encryption Installation
- McAfee Drive Encryption Menus

- McAfee Drive Encryption Server Settings
- General and PC Software Settings
- Simple Passwords and Tokens
- Non-Compatible Software and Themes
- Theme Modification
- Check Your Understanding
- Lab Exercises

Module 8: Active Directory Configuration

- Summary of the Installation Process
- LDAP Authentication
- Active Directory (AD)
- Configuration Workflow
- Populating the McAfee ePO System Tree with AD
- Registering LDAP Servers in McAfee ePO
- Registering LDAP Servers
- Troubleshooting Registered LDAP Servers
- Verifying AD Login in McAfee ePO
- Check your Understanding
- Mapping System Tree Structure with AD
- System Tree—Managed Systems
- Synchronizing AD with McAfee ePO System Tree
- LDAP Synchronization Task for McAfee Drive Encryption
- LDAP Synchronization for McAfee Drive Encryption
- LDAP Synchronization
- Lab Exercises

COURSE DESCRIPTION

Module 9: McAfee Drive Encryption Users

- McAfee Drive Encryption Users
- McAfee Drive Encryption User Menu
- Adding a McAfee Drive Encryption User to a System
- View a McAfee Drive Encryption User Added to a System
- Adding McAfee Drive Encryption Users—Automated
- Blacklist Rule with ALDU
- User Group Inheritance in McAfee ePO
- Adding Group Users to Systems
- Deleting a McAfee Drive Encryption User From a System
- Check Your Understanding
- Lab Exercises Only

Module 10: Installing McAfee Drive Encryption onto Clients

- Summary of the Installation Process
- McAfee Drive Encryption Client Deployment Process
- Client Requirements Review
- Pre-Installation Considerations Review
- Pre-Installation Considerations
- Pre-Installation—McAfee Drive Encryption Go
- Deploying McAfee Drive Encryption Agent and Software
- Verifying EEPC Installation
- Verifying Installation

- Events on the Client
- New Processes on the Client
- System Details After Default Policies Deploy
- Deployment
- Check Your Understanding
- Lab Exercises

Module 11: Offline Activation

- Offline Activation Overview
- Offline Activation Walk-Through
- Check Your Understanding

Module 12: McAfee Drive Encryption Policies

- Summary of the Installation Process
- Overview of Policies
- Policy Application and Inheritance
- Check your Understanding
- McAfee Drive Encryption Policies Overview
- McAfee Drive Encryption Product Settings Policy
- User Experience
- User-Based Policies
- Enforce UBP Configuration
- Policy Scenario
- Policy Assignment Rule
- Policy Assignment Rule—User-Based Example
- Check your Understanding
- Lab Exercises

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Module 13: McAfee Drive Encryption Dashboard and Reports

- McAfee Drive Encryption Reports and Queries
- Default Reports
- Example Report Output
- Actionable Reports
- Creating a New Query
- Dashboards
- McAfee Drive Encryption Dashboard and Monitors
- Managing a Dashboard
- Check your Understanding
- Lab Exercises Only

Module 14: McAfee Drive Encryption Administrative Users

- Purpose of Administrative Users
- Automatic Administrative Users in McAfee ePO
- Creating Automatic Administrative Users in McAfee ePO
- Automatic Administrative Users in McAfee ePO
- Permission Sets
- Permission Sets Explained
- Creating a McAfee Drive Encryption Permission Set
- Manually Creating a McAfee Drive Encryption Administrative User
- McAfee ePO View with McAfee Drive Encryption Permission Set

- Check your Understanding
- Lab Exercises

Module 15: Troubleshooting McAfee Drive Encryption

- Troubleshooting McAfee Drive Encryption
- Researching the Problem
- Current Known Issues
- Interaction Between McAfee AntiVirus and McAfee Drive Encryption
- Knowledge Base Articles
- Help Files
- Machine Information Report
- Minimum Escalation Requirements (MER)
- Collect Additional Information
- Log Files for McAfee ePO Server
- Enabling Orion.log Debugging
- Restarting SQL Processes on McAfee ePO Server
- Log Files for McAfee Agent
- Viewing the Agent Log File
- Debug Logging on the Client
- MfeEpe.log
- McAfee Drive Encryption Error Codes and Messages
- LDAP Synchronization Issue
- Agent Activation Issue
- Check Your Understanding
- Lab Exercises

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Module 16: Recovery Configuration

- McAfee Drive Encryption Recovery Options
- Traditional Self-Recovery Configuration
- Self-Recovery of User Password
- Reset Self-Recovery
- Smartphone Self-Recovery
- Administrative Recovery
- Administrative Recovery—McAfee ePO Administrator
- Check your Understanding
- Lab Exercises Only

Module 17: Disaster Recovery with DETech

- Disaster Recovery Needs and Scenarios
- Requirements for Disaster Recovery
- Capabilities of each Disk Type
- Creating DETech using Bart PE
- EZPE Builder for Data Recovery
- EZPE Builder for Data Recovery
- Windows Assessment and Deployment Kit
- Windows Assessment and Deployment Kit (Video)
- Windows Assessment and Deployment Kit 8.1
- Customize—Start with Phase
- Phase EZPE Builder (Bit)
- Customize—End with Phase
- Make a Bootable USB/CDROM
- EZSA Builder for Data Recovery

- Exporting Recovery Information from McAfee ePO
- Check Your Understanding
- Booting the EZPE Recovery USB\CD
- Booting EETech Recovery CD
- Operations
- Authorization and Authentication
- ActionsWorkspace
- Emergency Boot
- Decrypting with Remove EE
- Crypt Sectors
- Force Decrypt
- Restore MBR
- Edit Disk Crypt State
- Repair Disk Information
- Set Algorithm
- Set Boot Disk
- Check Your Understanding
- Lab Exercises

Module 18: DE Scripting

- Scripting Overview
- Python Client
- McAfee ePO Scripting
- McAfee Drive Encryption Scripting
- Check Your Understanding
- Lab Exercises

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Module 19: Uninstalling McAfee Drive Encryption and Upgrade Overview

- Steps in Uninstall
- Disable McAfee Drive Encryption Policies—For All Systems
- Modify Policy—Break Inheritance
- Modify Policy—On Single System
- View Decryption from Dashboard
- View Policy Update in Agent Monitor
- Decrypted Client System
- Remove McAfee Drive Encryption from Client
- Check Your Understanding
- Manually Uninstalling from a Client
- Check Your Understanding
- Migration
- End-User Experience
- OS Refresh
- Lab Exercises Only

Module 20: Endpoint Assistant

- The Beginning—Starting with the UBP Policy
- Product Settings—Companion Devices
- User-Based Policies—Companion Devices
- New System—Register Smartphone

- PBFS—Default Password and Logging on
- PBFS—First-Time Password Change
- User Password Recovery Questions
- Downloading the Endpoint AssistiPhone
- Scan QR Code with Endpoint Assist
- Endpoint Assistant—The QR Code
- Scenario: I Forgot My Password!
- Administrator/Smartphone Recovery
- Smartphone Time!
- Enter the Code into Line
- Enter the Code into Line
- Finishing Up!
- Troubleshooting—Re-Register Your System on EA

Module 21: McAfee Data Protection Self Service Portal (DPSSP)

- What Is the Self-Service Portal?
- Important
- Software Needed
- Instructions
- Server Settings
- Edit DPSSP Settings
- <https://mld-epo:/dpssp/ selfRecovery>

Learn More

To order, or for further information, please call 1 888 847 8766 or email SecurityEducation@mcafee.com.



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