



## CENTER FOR STRATEGIC INFORMATION TECHNOLOGY AND SECURITY

### **Course CP01: Check Point Full Disk Encryption (FDE): Administration & Deployment**

**Description:** This hands-on 1-day course covers the features and capabilities of Check Point's Full Disk Encryption (FDE) product (formerly Pointsec) and uses a lab-based approach to installation, configuration and troubleshooting. In addition you will be able to explore various options for deployment suitable for your specific environment.

For a detailed outline see the following pages.

**Dates:** March 26, 2010, and April, 16 (8:30am-4:30pm)

**Preparation:** Bring a laptop with administrative access. Prefer laptop without FDE preinstalled if you wish to complete all labs.

### **Course CP02: Check Point Media Encryption (ME) Administration and Advanced Full Disk Encryption**

**Description:** This hands-on 1-day course is covers the features and capabilities of Check Point's Media Encryption (ME) product (formerly Protector) and uses a lab-based approach to deployment, management, security and recovery. In the afternoon session, you will build on your FDE knowledge and skills addressing advanced topics and solutions.

For a detailed outline see the following pages.

**Dates:** March 27, 2010, and April 17, 2010 (8:30am-4:30pm)

**Prerequisite:** CP01 or equivalent knowledge.

**Preparation:** Bring a laptop with administrative access.

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**Cost:** No cost to attendee directly. Costs are being paid by the Minnesota Office of Enterprise Technology and MnSCU ITS. ***These courses are meant for information technology staffers within the MnSCU system and the State of Minnesota.*** As part of the registration process, you are asked to indicate supervisory approval to take this course as part of your employment training.

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**Registration:** Visit [www.advanceitmn.org/encryptiontraining.shtml](http://www.advanceitmn.org/encryptiontraining.shtml) and follow the link to self-register. First come, first served.

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## Course CP01: Check Point Full Disk Encryption (FDE): Administration & Deployment

### Outline

<i>Topic</i>	<i>Outcomes</i>	<i>Method</i>	<i>Time (estimated)</i>
Introduction & Expectations	<ul style="list-style-type: none"> <li>Determine learners' experience in IT and prior exposure to FDE</li> <li>Establish expectations</li> </ul>	Discussion	20 min
Overview of FDE	<ul style="list-style-type: none"> <li>Describe why full disk encryption is beneficial</li> <li>Describe the difference between FDE, BitLocker, and TrueCrypt</li> <li>Describe how FDE works to protect</li> </ul>	Presentation	30 min
Components of a FDE Solution	<ul style="list-style-type: none"> <li>Describe FDE local components</li> <li>Describe FDE server components</li> <li>Describe the FDE boot and key creation process</li> </ul>	Presentation	30 min
Manual Installation	<ul style="list-style-type: none"> <li>Install FDE in an environment with no previous FDE installations</li> <li>Describe how the installation process differs on Windows Vista machines</li> </ul>	Presentation Lab # 1	45 min
Walkthrough of Menu Options	<ul style="list-style-type: none"> <li>Describe the difference between SSO and WIL authentication methods</li> <li>Describe the configuration options available in the FDE Management Console</li> </ul>		30 min
Creating Installation Profiles	<ul style="list-style-type: none"> <li>Describe what an installation set is</li> <li>Describe what an installation profile does</li> <li>Create an installation profile based on another profile or the local computer</li> </ul>	Presentation Lab # 2 to 4	45 min
Uninstalling FDE	<ul style="list-style-type: none"> <li>Manually uninstall FDE</li> <li>Describe how to uninstall FDE using an uninstall profile</li> <li>Describe how to uninstall FDE by creating recovery media</li> </ul>	Presentation Lab # 5	30 min
Remote Installation	<ul style="list-style-type: none"> <li>Install FDE using a silent installation profile</li> <li>Describe how to deploy FDE using Active Directory, SMS, Altiris, Ghost or other remote deployment software</li> </ul>	Presentation Lab # 6	45 min
Creating Update Profiles	<ul style="list-style-type: none"> <li>Describe what an update profile is</li> <li>Create and deploy an update profile</li> </ul>	Presentation Lab # 7	30 min
Remote Help	<ul style="list-style-type: none"> <li>Describe when you might need remote help</li> <li>Describe the requirements to provide remote help</li> </ul>	Presentation	30 min
Troubleshooting	<ul style="list-style-type: none"> <li>Troubleshoot the Pre-Boot Environment</li> <li>Describe using reco_img or Windows Installation CD to repair a failed installation</li> <li>Create recovery media</li> </ul>	Presentation Lab # 8	30 min
FDE Deployment Guide	<ul style="list-style-type: none"> <li>Discuss the FDE Deployment Guide developed and tested by MnSCU schools</li> <li>Discuss resources for software and support, and four boilerplate configurations</li> </ul>	Presentation Discussion	30 min
Individual Discussion	<ul style="list-style-type: none"> <li>Discuss how you can set up FDE in your environment</li> </ul>	Discussion	45 min

## Course CP02: Check Point Media Encryption (ME) and Advanced Full Disk Encryption

### Outline

<i>Topic</i>	<i>Outcomes</i>	<i>Method</i>	<i>Time (estimated)</i>
Introduction & Expectations	<ul style="list-style-type: none"> <li>• Determine learners' experience in IT and prior exposure to ME and FDE</li> <li>• Establish expectations</li> </ul>	Discussion	20 min
Overview of FDE	<ul style="list-style-type: none"> <li>• Review FDE deployment and administration topics covered in the FDE Administration Course (CP01); describe advanced FDE topics to be covered in this course.</li> <li>• Describe ME deployment and administration topics to be covered in this course.</li> </ul>	Presentation	30 min
Components of an ME Solution	<ul style="list-style-type: none"> <li>• Describe ME local components</li> <li>• Describe ME server components</li> </ul>	Presentation	30 min
ME Deployment	<ul style="list-style-type: none"> <li>• Methodology, requirements</li> <li>• Server configuration (users, computers, groups, profiles)</li> </ul>	Presentation Lab	45 min
Administrator Console	<ul style="list-style-type: none"> <li>• Describe and use the administrative console to manage ME components</li> </ul>		30 min
Profiles	<ul style="list-style-type: none"> <li>• Describe creating and managing profiles using templates</li> <li>• Various tabs, configuration details under each tab</li> <li>• Deploying multiple stacked profiles</li> </ul>	Presentation Lab	45 min
Client administration	<ul style="list-style-type: none"> <li>• Client: deployment and update process</li> <li>• Client options including applying cumulative profiles; EPM client</li> </ul>	Presentation Lab	45 min
Logging	<ul style="list-style-type: none"> <li>• Logging and the Removable Media Log; Alerts and Reports</li> </ul>	Presentation Lab	45 min
Security	<ul style="list-style-type: none"> <li>• Securing the application using permissions; EPM recovery; Securing profiles</li> </ul>	Presentation Lab	30 min
Advanced FDE Troubleshooting	<ul style="list-style-type: none"> <li>• Describe and demonstrate key troubleshooting resources</li> <li>• Adapting to changing administrative and deployment needs</li> </ul>	Presentation	30 min
Issues and Solutions	<ul style="list-style-type: none"> <li>• Common issues and solutions</li> <li>• Discussion</li> </ul>	Presentation	30 min
Individual Discussion	<ul style="list-style-type: none"> <li>• Discuss how you can set up ME in your specific environment</li> </ul>	Discussion	45 min