Enhance Security Operations using Microsoft Security Copilot Training

Duration: **1 Day**

BILGINC IT Academy
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Overview

As cyber threats become more sophisticated and frequent, security teams must analyse incidents and respond to threats faster than ever before. Artificial intelligence technologies are increasingly being used to enhance security operations and accelerate threat detection.

The **Enhance Security Operations using Microsoft Security Copilot** course introduces security professionals to Microsoft's AI-powered security analysis tool: **Microsoft Security Copilot**.

During this course participants will learn:

- how generative AI supports modern cybersecurity operations
- how Microsoft Security Copilot processes security signals
- how AI-powered tools help analysts investigate threats faster
- how Security Copilot integrates with Microsoft security solutions

The course provides foundational knowledge that enables security teams to use AI-driven tools to improve incident response and operational efficiency.

Prerequisites

Participants should have knowledge in the following areas:

- security operations and incident response processes
- Microsoft Defender for XDR
- Microsoft Purview
- Microsoft Entra identity services
- Microsoft Intune device management

This course may require the use of**Multifactor Authentication (MFA)**. Participants are advised to install Microsoft Authenticator or a similar MFA application before attending.

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Who Should Attend

This course is suitable for professionals such as:

- SOC (Security Operations Center) analysts
- incident response specialists
- security engineers working with Microsoft security tools
- IT professionals responsible for threat monitoring and detection
- security architects designing secure environments
- cybersecurity managers and team leaders

What You Will Learn

By the end of the course participants will be able to:

- understand the role of generative AI in modern AI development
- explain how large language models power intelligent applications
- understand how Azure OpenAI supports AI-powered solutions
- identify effective Copilot prompts
- understand responsible generative AI development processes

Participants will also learn how Microsoft Security Copilot works within Microsoft's security ecosystem.

Outline

1. Fundamental AI Concepts

This module introduces the core concepts of artificial intelligence.

Topics include:

- artificial intelligence fundamentals
- generative AI technologies
- large language models

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2. Fundamentals of Generative AI

This section explains how generative AI systems function and how they are applied in modern applications.

Topics include:

- generative AI architecture
- intelligent applications
- Azure OpenAI services

3. Responsible Generative AI

This module focuses on building and deploying AI solutions responsibly.

Topics include:

- identifying potential harms in AI systems
- measuring AI risks
- mitigation strategies for responsible AI development

4. Introduction to Microsoft Security Copilot

This module introduces the core capabilities of Microsoft Security Copilot.

Topics include:

- Security Copilot architecture
- AI-driven security analysis
- prompt-based investigation

5. Core Capabilities of Microsoft Security Copilot

Participants explore how Security Copilot enhances security operations.

Topics include:

- analysing security signals

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- investigating threats
- supporting incident response

6. Microsoft Security Platform Integrations

This module explains how Security Copilot integrates with Microsoft security products.

Topics include:

- Microsoft Defender XDR
- Microsoft Purview
- Microsoft Entra
- Microsoft Intune