

Cybersecurity Essentials in Google Cloud

Key information

Course code	Cybersecurity Essentials in Google Cloud
Course version	1.0
Course title	Cybersecurity Essentials in Google Cloud
Description	<p>This course covers cybersecurity essentials, from foundational terms and frameworks to practical application on Google Cloud. You will learn to differentiate between traditional and modern AI-powered security, analyzing how AI accelerates threat detection, investigation, and response. Gain critical skills to protect cloud environments and evaluate the transformative impact of AI in security operations.</p>
What you'll learn	<ul style="list-style-type: none">• Define key cybersecurity terms and identify the primary domains of cybersecurity.• Explain the importance of cybersecurity and the principles of cybersecurity frameworks.• Apply cybersecurity frameworks to Google Cloud Platform security services.• Differentiate between traditional and AI-powered approaches to threat detection and response.• Evaluate AI's impact in accelerating security incident investigation and response.
Duration	3 hours
Level	Introductory
Format	Instructor-led

Content overview

Who this course is for	IT Professionals Cloud Engineers Junior Security Analysts Security Managers
Total modules	6
Total videos	0
Total Labs	0
Total classroom activities	6
Prerequisites	<ul style="list-style-type: none"> • Basic cybersecurity knowledge • Basic IT, Cloud • SOC role familiarity • Google Cloud familiarity • Basic AI, ML
Products	<ul style="list-style-type: none"> • Google Security Operations (SecOps) • Gemini in Security • Mandiant Threat Intelligence • Security Command Center • VirusTotal Code Insight
Not covered	-

Content breakdown

Module 1 title	Defining Cybersecurity
Module 1 topics	<ol style="list-style-type: none"> 1. Cybersecurity definition 2. Cybersecurity domains 3. What it takes to implement cybersecurity
Module 1 objectives	<ul style="list-style-type: none"> • Define key cybersecurity terms and identify the primary domains of cybersecurity.
Module 1 activities	-

Module 2 title	Cybersecurity's importance and relevance
Module 2 topics	<ol style="list-style-type: none"> 1. Threats and attacks 2. Cybersecurity in context
Module 2 objectives	<ul style="list-style-type: none"> • Explain the importance of cybersecurity and the principles of cybersecurity frameworks.
Module 2 activities	Cybersecurity in context: Discussion
Module 3 title	Cybersecurity frameworks and models
Module 3 topics	<ol style="list-style-type: none"> 1. The CIA triad 2. NIST CSF 2.0 Framework
Module 3 objectives	<ul style="list-style-type: none"> • Apply cybersecurity frameworks to Google Cloud Platform security services.
Module 3 activities	-
Module 4 title	Cybersecurity and Google Cloud Platform
Module 4 topics	<ol style="list-style-type: none"> 1. The CIA Triad in Google Cloud 2. NIST CSF 2.0 Framework in Google Cloud 3. Cybersecurity domains
Module 4 objectives	<ul style="list-style-type: none"> • Apply cybersecurity frameworks to Google Cloud Platform security services.
Module 4 activities	<ul style="list-style-type: none"> • Demo 1: Google Cloud IAM • Demo 2: Google Cloud Secret Manager • Demo 3: Firewall Rules for Network Security • Demo 4: Confidential Computing • Demo 5: Security Command Center
Module 5 title	Cybersecurity and Google AI Integration
Module 5 topics	<ol style="list-style-type: none"> 1. The modern threat landscape 2. Google Cloud's Unified AI-powered security platform 3. Case study: From AI detection to automated response
Module 5 objectives	<ul style="list-style-type: none"> • Differentiate between traditional and AI-powered approaches to threat detection and response. • Evaluate AI's impact in accelerating security incident investigation and response.
Module 5 activities	-

Module 6 title	Cybersecurity Essentials in Google Cloud: Quiz
Module 6 topics	1. Knowledge check on Cybersecurity Essentials in Google Cloud
Module 6 objectives	N/A
Module 6 activities	-