[sfeir] Institute

Cloud Digital Leader training with Google Cloud

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What you'll learn

- How to identify Google Cloud products and solutions that support digital transformation.
- How cloud technology and data can be used to innovate within organizations.
- Ways organizations can innovate using Google Cloud's artificial intelligence and machine learning solutions.
- Options for infrastructure and application modernization with Google Cloud.
- The fundamentals of cloud security, Google's trusted infrastructure.
- How to optimize cloud costs and achieve operational excellence with Google Cloud.

Who this course is for

- Traditional enterprise business decision makers
- All management levels leading product, projects, programs, operations, line of business, finance, people management, sales, marketing, and client management interested in how Google Cloud can support their business transformation
- Individuals reasonably new to cloud technology

Prerequisite

• Knowledgeable about your own business products, services, and industry.
• No prior technical knowledge is required.

Course outline

Module 1: Digital Transformation with Google Cloud

Topics

- Why cloud technology is transforming business
- Fundamental cloud concepts
- Cloud computing models and shared responsibility

Objectives

- Explain why and how the cloud is revolutionizing businesses.
- Explain general cloud concepts.
- Discuss the benefits and tradeoffs of using infrastructure as a service (IaaS); platform as a service (PaaS); and software as a service (SaaS).

Module 2: Exploring Data Transformation with Google Cloud

Topics

- The value of data
- Google Cloud data management solutions
- Making data useful and accessible

Objectives

- Describe the intrinsic role that data plays in an organization's digital transformation.
- Determine which Google Cloud data management products are applicable to different business use cases.
- Discuss how smart analytics, business intelligence tools, and streaming analytics can add value in different business use cases.

Module 3: Innovating with Google Cloud Artificial Intelligence

Topics

- AI and ML fundamentals
- Google Cloud's AI and ML solutions

Objectives

- Discuss the main AI and ML concepts, and explain how ML can create business value.
- Discuss the range of Google Cloud AI and ML solutions and products available, and how to select the most appropriate solution for different business use cases.
- Explain how Google Cloud's pre-trained API, AutoML, and custom AI/ML products can create business value.

Module 4: Modernize Infrastructure and Applications with Google Cloud

Topics

- Important cloud migration terms
- Modernizing infrastructure in the cloud
- Modernizing applications in the cloud

Objectives

- Explain why modernization and migration to the cloud are important steps in an organization's transformation journey, and how each application might have a different path.
- Discuss the options for and advantages of running compute workloads in the cloud.
- Discuss the advantages of using containers in application modernization.
- Discuss the advantages of serverless computing in application modernization.
- Explain the business value of application programming interfaces (APIs).
- Discuss the business reasons for choosing hybrid or multi-cloud strategies and how GKE Enterprise enables these strategies.

Module 5: Trust and Security with Google Cloud

Topics

- Trust and security in the cloud
- Google's trusted infrastructure
- Google Cloud's trust principles and compliance

Objectives

- Discuss fundamental cloud security concepts.
- Explain the business value of Google's defense-in-depth multilayered approach to infrastructure security.
- Describe how Google Cloud earns and maintains customer trust in the cloud.

Module 6: Scaling with Google Cloud Operations

Topics

- Financial governance and managing cloud costs
- Operational excellence and reliability at scale
- Sustainability with Google Cloud

Objectives

- Discuss how Google Cloud supports an organization's financial governance and ability to control their cloud costs.
- Discuss the fundamental concepts of modern operations, reliability, and resilience in the cloud.
- Discuss how Google Cloud helps organizations meet sustainability goals and reduce environmental impact.