

Google Cloud Digital Leader

This Google Cloud Digital Leader training covers how to describe the capabilities of Google Cloud core products and services and conceptualize and advocate for how they can benefit your team or organization.

[CBT Nuggets course material](#) →

WEEK 1

Why Cloud Technology is Transforming Business 156 min.

- The Various Types of Clouds, and What They Replace 16
- Cloud Jargon Busting (Let's Define Some Terms) 11
- Digital Transformation 9
- The Transformation Cloud and How Google Fits In 7
- Validation 5

Fundamental Cloud Concepts

- Introduction 1
- Advantages Offered by Cloud Computing 14
- CapEx, OpEx, and TCO 8
- Cloud Networking: IP Addresses and DNS 7
- Cloud Networking: Bandwidth and Latency 10
- Cloud Networking: Global Networks, and a Nifty Cloud Trick 11
- Google's Networking Advantage 6
- Validation 12

Cloud Computing Models and Shared Responsibility

- Introduction 1
- IaaS, Paas, and SaaS 10
- Why Choose One Over Another? 11
- Use-case Scenarios for Choosing a Computing Model 9
- Google, and the Shared Responsibility Model 8

WEEK 2

152 min.

- Validation 1

The Role of Data in Digital Transformation

Introduction	1
What is Data?	11
Leveraging Data	8
Types of Data	9
Security, Privacy, & Ethics	7
Validation	7

Data Consolidation and Analytics

Introduction	1
Where Your Data Lives	6
Cloud Databases	7
Cloud Data Warehouses	5
Filling Your Warehouse	4
Cloud Data Lakes	11
Business Intelligence	4
Validation	4

AI and ML Fundamentals

Intro	1
AI vs ML	10
Business Use Cases for AI & ML	6
Problems Ideal for Machine Learning	10
The Importance of High Quality Data	9
Responsible AI	9
Validation	4

Google Cloud's AI and ML Solutions

Intro	1
BigQuery ML	3

Pre-Trained API	8
AutoML	5

WEEK 3

157 min.

Custom Models	4
TensorFlow	5
Google's AI Solutions & Considerations	13
Validation	3

Cloud Migration Terms and Methodologies

Intro	1
Retired or Retained	6
Rehosted or Replatformed	10
Refactoring	13
Reimagining	11
Validation	1

Modernizing Infrastructure in the Google Cloud

Intro	1
Compute Workloads	8
Virtualization	13
Containers	12
Kubernetes	5
Serverless Computing	6
Validation	1

Modernizing Applications in the Google Cloud

Intro	1
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Benefits of Cloud Development	12
Rehosting Legacy Applications	6
Application Programming Interfaces (APIs)	11
Managing APIs	6
Hybrid & Multi-Cloud	8

WEEK 4

156 min.

Validation	1
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Trust and Security in the Cloud

Intro	2
Terminology	11
Security Measures	7
Cloud Security Components	11
Control and Compliance	2
On-prem -vs- The Cloud	8
Cybersecurity Threats	8
Validation	1

Google's Trust Infrastructure

Intro	1
Datacenters	11
Secure Storage	8
Identity	10
Network Security	12
Security Operations (SecOps)	5
Validation	1

Google Cloud's Trust Principles and Compliance

Intro	2
Trust Principles	11
Transparency and Verification	3
Data Sovereignty and Data Residency	14
Industry and Regional Compliance	7
Validation	1

Financial Governance and Managing Cloud Costs

Intro	2
Fundamentals of Cloud Financial Governance	17

WEEK 5

117 min.

Cloud Financial Governance Best Practices	12
Using the Resource Hierarchy to Control Access	6
Controlling Cloud Consumption	7
Validation	1

Operational Excellence and Reliability at Scale

Intro	4
Fundamentals of Cloud Reliability	18
Designing Resilient Infrastructure	16
Modernizing Operations Using Google Cloud	9
Validation	1

Sustainability with Google Cloud

Intro	3
Support	15
The Life of a Support Case	18

Sustainability

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Validation

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