

# Google Cloud Learning Paths on Google Cloud Skills Boost



# Solution and role-based learning paths





# Infrastructure Modernization

Video ▶

	Roles: Cloud Engineer, Cloud Admin	Links
<b>Get ready</b>	Preparing for Your Associate Cloud Engineer Journey   1 DAY	● DS SB
<b>Learn</b>	Google Cloud Fundamentals: Core Infrastructure *   1 DAY	◊● DS SB
	Architecting with Google Compute Engine   3 DAYS	◊● DS SB <sup>1</sup>
	Getting Started with Google Kubernetes Engine **   1 DAY	◊● DS SB
	Architecting with Google Kubernetes Engine   3 DAYS	◊● DS SB
	Logging and Monitoring in Google Cloud   2 DAYS	◊● DS SB
	Getting Started with Terraform for Google Cloud   1 DAY	◊● DS SB
<b>Practice</b>	Implement Load Balancing on Compute Engine	★ SB
	Perform Foundational Infrastructure Tasks in Google Cloud	★ SB
	Develop Your Google Cloud Network	★ SB
	Build Infrastructure with Terraform on Google Cloud	★ SB
<b>Resources</b>	Associate Cloud Engineer Exam Guide	■ ↔
	Associate Cloud Engineer Sample Questions	■ ↔
<b>Certify</b>	<a href="#">Associate Cloud Engineer</a>	○ ↔

	Roles: Cloud Architect, Cloud Engineer	Links
<b>Get ready</b>	Preparing for Your Professional Cloud Architect Journey   1 DAY	◊● DS SB
<b>Learn</b>	Google Cloud Fundamentals: Core Infrastructure *   1 DAY	◊● DS SB
	Architecting with Google Compute Engine   3 DAYS	◊● DS SB <sup>1</sup>
	Getting Started with Google Kubernetes Engine **   1 DAY	◊● DS SB
	Logging and Monitoring in Google Cloud   2 DAYS	◊● DS SB
	Reliable Google Cloud Infrastructure: Design and Process   2 DAYS	◊● DS SB
	Getting Started with FinOps on Google Cloud - FinOps Practitioner	◊ DS
	Getting Started with FinOps on Google Cloud - FinOps Engineer	◊ DS
	<b>Practice</b>	Implement Load Balancing on Compute Engine
Set Up an App Dev Environment on Google Cloud		★ SB
Develop Your Google Cloud Network		★ SB
Build Infrastructure with Terraform on Google Cloud		★ SB
Set Up a Google Cloud Network		★ SB
Optimize Costs for Google Kubernetes Engine		★ SB
Cloud Architecture: Design, Implement, and Manage		✓ SB
<b>Resources</b>	Professional Cloud Architect Exam Guide	■ ↔
	Professional Cloud Architect Sample Questions	■ ↔
<b>Certify</b>	<a href="#">Professional Cloud Architect</a>	○ ↔

1 - This is a specialization. || \* If switching public cloud providers, try Google Cloud Fundamentals for AWS or Azure Professionals. | \*\* For more on Kubernetes, try Architecting with Google Kubernetes Engine.  
 Note: When a course is offered as both on-demand and in a classroom, the duration reflects the classroom experience. Additional custom training options are available on request.



## Infrastructure Modernization →

Video ▶

Roles: Network Engineer, Network Operations

Links

Get ready	Preparing for Your Professional Cloud Network Engineer Journey   1 DAY	◊ ● DS SB	
	Google Cloud Fundamentals: Core Infrastructure *   1 DAY	◊ ● DS SB	
Learn & Practice	Networking Fundamentals in Google Cloud***	✓	SB
	Networking in Google Cloud: Fundamentals	● DS SB	
	Networking in Google Cloud: Routing and Addressing	●	SB
	Networking in Google Cloud: Cloud Load Balancing	●	SB
	Networking in Google Cloud: Network Security	●	SB
	Networking in Google Cloud: Network Architecture	●	SB
	Logging, Monitoring and Observability in Google Cloud   2 DAYS	◊ DS SB	
	Implement Load Balancing on Compute Engine	★	SB
	Configure Google Kubernetes Engine Networking	★	SB
	Set Up an App Dev Environment on Google Cloud	★	SB
Build a Secure Google Cloud Network	★	SB	
Network Performance and Optimization	✓	SB	
Implement Cloud Security Fundamentals on Google Cloud	★	SB	
Resources	Professional Cloud Network Engineer Exam Guide	■	⇌
	Professional Cloud Network Engineer Sample Questions	■	⇌
Certify	Professional Cloud Network Engineer	○	⇌

\*\*\* if you have already taken Architecting with GCE, you don't need to take this self-paced lab.

1 - This is a specialization. | \* If switching public cloud providers, try Google Cloud Fundamentals for AWS or Azure Professionals. | \*\* For more on Kubernetes, try Architecting with Google Kubernetes Engine.

Note: When a course is offered as both on-demand and in a classroom, the duration reflects the classroom experience. Additional custom training options are available on request.




## Google Cloud Infrastructure for AWS professionals

Video ▶

**Roles:** Cloud Engineer, Cloud Architect

		Links	
Learn	Google Cloud IAM and Networking for AWS Professionals   1 DAY	●	<a href="#">DS</a> <a href="#">SB</a>
	Google Cloud Compute and Scalability for AWS Professionals   1 DAY	●	<a href="#">DS</a> <a href="#">SB</a>
	Google Cloud Storage and Containers for AWS Professionals   1 DAY	●	<a href="#">DS</a> <a href="#">SB</a>
	Deploy and Monitor in Google Cloud for AWS Professionals   1 DAY	●	<a href="#">DS</a> <a href="#">SB</a>
Practice	Build Google Cloud Infrastructure for AWS Professionals	★	<a href="#">SB</a>

**Roles:** Cloud Architect, Cloud Engineer

		Links	
Learn	Google Cloud IAM and Networking for AWS Professionals   1 DAY	●	<a href="#">DS</a> <a href="#">SB</a>
	Logging, Monitoring, and Observability in Google Cloud   2 DAYS	◊	<a href="#">DS</a> <a href="#">SB</a>
	Reliable Google Cloud Infrastructure: Design and Process   2 DAYS	◊●	<a href="#">DS</a> <a href="#">SB</a>
Practice	Build Google Cloud Infrastructure for AWS Professionals	★	<a href="#">SB</a>
	Implement Cloud Security Fundamentals on Google Cloud	★	<a href="#">SB</a>
	Optimize Costs for Google Kubernetes Engine	★	<a href="#">SB</a>
	Set Up an App Dev Environment on Google Cloud	✓	<a href="#">SB</a>
	Cloud Architecture: Design, Implement, and Manage	★	<a href="#">SB</a>
Resources	Professional Cloud Architect Exam Guide	■	<a href="#">↔</a>
	Professional Cloud Architect Sample Questions	■	<a href="#">↔</a>
Certify	 <a href="#">Professional Cloud Architect</a>	○	<a href="#">↔</a>
Continuing Education	BigQuery Fundamentals for Redshift Professionals   1 DAY	●	<a href="#">DS</a> <a href="#">SB</a>
	BigQuery Fundamentals for Teradata Professionals   1 DAY	●	<a href="#">DS</a> <a href="#">SB</a>
	BigQuery Fundamentals for Oracle Professionals   1 DAY	●	<a href="#">DS</a> <a href="#">SB</a>
	BigQuery Fundamentals for Snowflake Professionals   1 DAY	●	<a href="#">DS</a> <a href="#">SB</a>
	Build a Data Warehouse with BigQuery   1 DAY	★	<a href="#">SB</a>



## Google Cloud Infrastructure for Azure professionals

Video ▶

**Roles:** Cloud Engineer, Cloud Architect

		Links	
Learn	Google Cloud IAM and Networking for Azure Professionals   1 DAY	●	<a href="#">DS</a> <a href="#">SB</a>
	Google Cloud Compute and Scalability for Azure Professionals   1 DAY	●	<a href="#">DS</a> <a href="#">SB</a>
	Google Cloud Storage and Containers for Azure Professionals   1 DAY	●	<a href="#">DS</a> <a href="#">SB</a>
	Deploy and Monitor in Google Cloud for Azure Professionals   1 DAY	●	<a href="#">DS</a> <a href="#">SB</a>
Practice	Build Google Cloud Infrastructure for Azure Professionals	★	<a href="#">SB</a>

**Roles:** Cloud Architect, Cloud Engineer

		Links	
Learn	Google Cloud IAM and Networking for Azure Professionals   1 DAY	●	<a href="#">DS</a> <a href="#">SB</a>
	Logging and Monitoring in Google Cloud   2 DAYS	◊●	<a href="#">DS</a> <a href="#">SB</a>
	Reliable Google Cloud Infrastructure: Design and Process   2 DAYS	◊●	<a href="#">DS</a> <a href="#">SB</a>
Practice	Build Google Cloud Infrastructure for Azure Professionals	★	<a href="#">SB</a>
	Implement Cloud Security Fundamentals on Google Cloud	★	<a href="#">SB</a>
	Optimize Costs for Google Kubernetes Engine	★	<a href="#">SB</a>
	Set Up an App Dev Environment on Google Cloud	✓	<a href="#">SB</a>
	Cloud Architecture: Design, Implement, and Manage	★	<a href="#">SB</a>
Resources	Professional Cloud Architect Exam Guide	■	⇄
	Professional Cloud Architect Sample Questions		⇄
Certify	<a href="#">Professional Cloud Architect</a>	○	⇄
Continuing Education	BigQuery Fundamentals for Redshift Professionals   1 DAY	●	<a href="#">DS</a> <a href="#">SB</a>
	BigQuery Fundamentals for Teradata Professionals   1 DAY	●	<a href="#">DS</a> <a href="#">SB</a>
	BigQuery Fundamentals for Oracle Professionals   1 DAY	●	<a href="#">DS</a> <a href="#">SB</a>
	BigQuery Fundamentals for Snowflake Professionals   1 DAY	●	<a href="#">DS</a> <a href="#">SB</a>
	Build a Data Warehouse with BigQuery   1 DAY	★	<a href="#">SB</a>



Security



Video ▶

Roles: Security Engineer, Security Operations

		Links	
<b>Get ready</b>	Preparing for Your Professional Cloud Security Engineer Journey   1 DAY	◊●	<a href="#">DS</a> <a href="#">SB</a>
<b>Learn</b>	Google Cloud Fundamentals: Core Infrastructure *   1 DAY	◊●	<a href="#">DS</a> <a href="#">SB</a>
	Networking in Google Cloud   2 DAYS	◊●	<a href="#">DS</a> <a href="#">SB</a> <sup>1</sup>
	Security in Google Cloud   3 DAYS	◊●	<a href="#">DS</a> <a href="#">SB</a> <sup>1</sup>
	Logging and Monitoring in Google Cloud   2 DAYS	◊●	<a href="#">DS</a> <a href="#">SB</a>
<b>Practice</b>	Build a Secure Google Cloud Network	★	<a href="#">SB</a>
	Implement Cloud Security Fundamentals on Google Cloud	★	<a href="#">SB</a>
	Google Kubernetes Engine Best Practices: Security	✓	<a href="#">SB</a>
	Securing your Network with Cloud Armor	✓	<a href="#">SB</a>
	Mitigate Threats and Vulnerabilities with Security Command Center	★	<a href="#">SB</a>
<b>Resources</b>	Professional Cloud Security Engineer Exam Guide	■	⇄
	Professional Cloud Security Engineer Sample Questions	■	⇄
<b>Certify</b>	<a href="#">Professional Cloud Security Engineer</a>	○	⇄

Roles: DevSecOps Engineer

		Links	
<b>Learn</b>	Google Cloud Fundamentals: Core Infrastructure *   1 DAY	◊●	<a href="#">DS</a> <a href="#">SB</a>
	Architecting with Google Kubernetes Engine   3 DAYS	◊●	<a href="#">DS</a> <a href="#">SB</a>
	Security in Google Cloud   3 DAYS	◊●	<a href="#">DS</a> <a href="#">SB</a> <sup>1</sup>
	Getting Started with Terraform for Google Cloud   1 DAY	◊●	<a href="#">DS</a> <a href="#">SB</a>
<b>Practice</b>	Security and Identity fundamentals	★	<a href="#">SB</a>
	CI/CD on Google Cloud	★	<a href="#">SB</a>
	DevOps Essentials	★	<a href="#">SB</a>
	Google Kubernetes Engine Best Practices: Security	★	<a href="#">SB</a>
	Mitigate Threats and Vulnerabilities with Security Command Center	★	<a href="#">SB</a>

1 - This is a specialization. || \* If switching public cloud providers, try Google Cloud Fundamentals for AWS or Azure Professionals. | \*\* For more on Kubernetes, try Architecting with Google Kubernetes Engine.  
 Note: When a course is offered as both on-demand and in a classroom, the duration reflects the classroom experience. Additional custom training options are available on request.



## Hybrid and Multi-Cloud


Video ▶

Roles: Cloud Architect, DevOps Engineer

		Links
Learn	Google Cloud Fundamentals: Core Infrastructure *   1 DAY	◊● <a href="#">DS</a> <a href="#">SB</a>
	Architecting with Google Kubernetes Engine   3 DAYS	◊● <a href="#">DS</a> <a href="#">SB</a> <sup>1</sup>
	Architecting Hybrid Cloud Infrastructure with Anthos   4 DAYS	◊● <a href="#">DS</a> <a href="#">SB</a> <sup>1</sup>
	Cloud Operations and Service Mesh with Anthos   1 DAY	● <a href="#">DS</a> <a href="#">SB</a>
	Hybrid Cloud Multi-Cluster with Anthos   1 DAY	◊● <a href="#">SB</a>
	Hybrid Cloud Service Mesh with Anthos   1 DAY	● <a href="#">DS</a> <a href="#">SB</a>
Practice	Anthos on Bare Metal   1 DAY	◊● <a href="#">DS</a> <a href="#">SB</a>
	Implement Load Balancing on Compute Engine	★ <a href="#">SB</a>
	Deploy Kubernetes Applications on Google Cloud	★ <a href="#">SB</a>
	Optimize Costs for Google Kubernetes Engine	★ <a href="#">SB</a>

## Data Management

Roles: Database Engineer

		Links
Learn	Google Cloud Fundamentals: Core Infrastructure *   1 DAY	◊● <a href="#">DS</a> <a href="#">SB</a>
	Enterprise Database Migration   4 DAYS	◊● <a href="#">DS</a> <a href="#">SB</a>
	Understanding Cloud Spanner	◊ <a href="#">DS</a>
Practice	Migrate MySQL data to Cloud SQL using Database Migration Service	★ <a href="#">SB</a>
	Manage PostgreSQL Databases on Cloud SQL	★ <a href="#">SB</a>
	Create and Manage Cloud Spanner Databases	★ <a href="#">SB</a>
	Manage Bigtable on Google Cloud	★ <a href="#">SB</a>
	Create and Manage AlloyDB Databases	★ <a href="#">SB</a>
Resources	Professional Cloud Database Engineer Exam Guide	■ <a href="#">↔</a>
	Professional Cloud Database Engineer Sample Questions	■ <a href="#">↔</a>
Certify	 <a href="#">Professional Cloud Database Engineer</a>	○ <a href="#">↔</a>

\* If switching public cloud providers, try Google Cloud Fundamentals for AWS or Azure Professionals.

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Application Modernization <>

Video ▶

Roles: Cloud Developer

		Links
Learn	Google Cloud Fundamentals: Core Infrastructure *   1 DAY	◊ ● <a href="#">DS</a> <a href="#">SB</a>
	Developing Applications with Google Cloud   3 DAYS	◊ ● <a href="#">DS</a> <a href="#">SB</a> <sup>1</sup>
	Application Development with Cloud Run   3 DAYS	◊ ● <a href="#">DS</a> <a href="#">SB</a>
	Getting Started with Google Kubernetes Engine   1 DAY	◊ ● <a href="#">DS</a> <a href="#">SB</a>
	Hybrid Cloud Modernizing Applications with Anthos   1 DAY	◊ ● <a href="#">DS</a> <a href="#">SB</a>
Practice	Develop Serverless Applications on Cloud Run	★ <a href="#">SB</a>
	Develop Serverless Apps with Firebase	★ <a href="#">SB</a>
	Deploy Kubernetes Applications on Google Cloud	★ <a href="#">SB</a>
Resources	Professional Cloud Developer Exam Guide	■ <a href="#">↔</a>
	Professional Cloud Developer Sample Questions	■ <a href="#">↔</a>
Certify	<a href="#">Professional Cloud Developer</a>	○ <a href="#">↔</a>

Roles: SRE, DevOps Engineer

		Links
Learn	Google Cloud Fundamentals: Core Infrastructure *   1 DAY	◊ ● <a href="#">DS</a> <a href="#">SB</a>
	Developing a Google SRE Culture   4 HOURS	● <a href="#">DS</a> <a href="#">SB</a>
	Reliable Google Cloud Infrastructure: Design and Process   2 DAYS	◊ ● <a href="#">DS</a> <a href="#">SB</a>
	Logging and Monitoring in Google Cloud   2 DAYS	◊ ● <a href="#">DS</a> <a href="#">SB</a>
	Getting Started with Terraform for Google Cloud   1 DAY	◊ ● <a href="#">DS</a> <a href="#">SB</a>
	Cloud Operations and Service Mesh with Anthos   1 DAY	● <a href="#">DS</a> <a href="#">SB</a>
Practice	Perform Foundational Infrastructure Tasks	★ <a href="#">SB</a>
	Implement DevOps Workflows in Google Cloud	★ <a href="#">SB</a>
	Monitor and Log with Google Cloud Operations Suite	★ <a href="#">SB</a>
	Measure Site Reliability using Cloud Operations Suite	★ <a href="#">SB</a>
	Build Infrastructure with Terraform on Google Cloud	★ <a href="#">SB</a>
Resources	Professional Cloud DevOps Engineer Exam Guide	■ <a href="#">↔</a>
	Professional Cloud DevOps Engineer Sample Questions	■ <a href="#">↔</a>
Certify	<a href="#">Professional Cloud DevOps Engineer</a>	○ <a href="#">↔</a>

1 - This is a specialization. || \* If switching public cloud providers, try Google Cloud Fundamentals for AWS or Azure Professionals.

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## Business Application Platform - API Management

**Roles:** Cloud Architect/Engineer on Apigee Program | [Apigee Hybrid](#)

<b>Prerequisite</b>	Complete Cloud Engineer learning path		
<b>Learn</b>	Developing APIs with Google Cloud's Apigee API Platform   3 DAYS	◊● <a href="#">DS</a> <a href="#">SB</a> <sup>1</sup>	
	Architecting with Google Kubernetes Engine   3 DAYS	◊● <a href="#">DS</a> <a href="#">SB</a> <sup>1</sup>	
	Architecting Hybrid Cloud Infrastructure with Anthos   4 DAYS	◊● <a href="#">DS</a> <a href="#">SB</a> <sup>1</sup>	
	Managing Google Cloud's Apigee API Platform for Hybrid Cloud   3 DAYS	◊● <a href="#">DS</a> <a href="#">SB</a> <sup>1</sup>	
<b>Practice</b>	Develop and Secure APIs with Apigee X	★	<a href="#">SB</a>
	Deploy and Manage Apigee X	★	<a href="#">SB</a>

**Roles:** Cloud Architect/Engineer on Apigee Program | [Apigee \(Private Cloud\)](#)

<b>Learn</b>	Developing APIs with Google Cloud's Apigee API Platform   3 DAYS	◊● <a href="#">DS</a> <a href="#">SB</a> <sup>1</sup>
	Installing and Managing Google Cloud's Apigee API Platform for Private Cloud   3 DAYS	● <a href="#">DS</a> <a href="#">SB</a> <sup>1</sup>
<b>Practice</b>	Develop and Secure APIs with Apigee X	★ <a href="#">SB</a>
	Deploy and Manage Apigee X	★ <a href="#">SB</a>

1 - This is a specialization. || \* If switching public cloud providers, try Google Cloud Fundamentals for AWS or Azure Professionals.

Note: When a course is offered as both on-demand and in a classroom, the duration reflects the classroom experience. Additional custom training options are available on request.



## Business Application Platform - API Management

Roles: API Developer

		Links
Learn	Developing APIs with Google Cloud's Apigee API Platform   3 DAYS	◊● <a href="#">DS</a> <a href="#">SB</a> <sup>1</sup>
	Building Solutions on Apigee X	◊ <a href="#">DS</a>
Practice	Develop and Secure APIs with Apigee X	★ <a href="#">SB</a>
	Deploy and Manage Apigee X	★ <a href="#">SB</a>

## Startup

Roles: Startup Cloud Engineer

		Links
Learn	Google Cloud Fundamentals: Core Infrastructure *   1 DAY	◊● <a href="#">DS</a> <a href="#">SB</a>
	Managing Security in Google Cloud   1 DAY	◊● <a href="#">SB</a>
	App Deployment, Debugging, and Performance   1 DAY	◊● <a href="#">SB</a>
	Application Development with Cloud Run   3 DAYS	◊● <a href="#">DS</a> <a href="#">SB</a>
	Building No-Code Apps with AppSheet: Foundations *   6 HOURS	● <a href="#">DS</a> <a href="#">SB</a>
	Migrating to Google Cloud *   8 HOURS	● <a href="#">DS</a> <a href="#">SB</a>
Practice	Understanding Your Google Cloud Costs	✓ <a href="#">SB</a>
	Managing Cloud Infrastructure with Terraform	★ <a href="#">SB</a>
	Develop Serverless Apps with Firebase	★ <a href="#">SB</a>
Resources	Google Cloud Solutions	■ ⇄
	Google Cloud Developer Cheat Sheet	■ ⇄
	Google Cloud Learning Paths	■ ⇄

1 - This is a specialization. | \* If switching public cloud providers, try Google Cloud Fundamentals for AWS or Azure Professionals. | \*\* Available at no cost at Google Cloud Skills Boost.

Note: When a course is offered as both on-demand and in a classroom, the duration reflects the classroom experience. Additional custom training options are available on request.



## Machine Learning and Artificial Intelligence



Video ▶

### Roles: Data Scientist/ML Engineer \*

		Links
Learn	Introduction to AI and ML on Google Cloud   1 DAY	<a href="#">DS</a> <a href="#">SB</a>
	Machine Learning on Google Cloud   4 DAYS	<a href="#">DS</a> <a href="#">SB</a> <sup>1</sup>
	Advanced Solutions Lab   5 WEEKS	
OR		
Learn	Advanced Machine Learning with TensorFlow on Google   5 WEEKS	<a href="#">DS</a> <a href="#">SB</a> <sup>1</sup>
	ML Ops: Getting Started   1 DAY	<a href="#">DS</a> <a href="#">SB</a>
	MLOps with Vertex AI: Manage Features   1 DAY	<a href="#">DS</a> <a href="#">SB</a>
	ML Pipelines on Google Cloud   4 DAYS	<a href="#">DS</a> <a href="#">SB</a>
Practice	Prepare Data for ML APIs on Google Cloud	<a href="#">SB</a>
	Build and Deploy ML Solutions on Vertex AI	<a href="#">SB</a>
Resources	Professional Machine Learning Engineer Exam Guide	
	Professional Machine Learning Engineer Sample Questions	
Certify	<a href="#">Professional Machine Learning Engineer</a>	

### Roles: Contact Center Engineer

Learn

	Links
Customer Experiences with Contact Center AI – Dialogflow ES   4 DAYS	<a href="#">DS</a> <a href="#">SB</a> <sup>1</sup>

1 - This is a specialization. || \* Vertex AI content is included in the ML engineer learning path, and new assets will continue to be made available. See the Vertex AI product learning path for available preparation resources. Note: When a course is offered as both on-demand and in a classroom, the duration reflects the classroom experience. Additional custom training options are available on request.



## Introduction to Generative AI [Video ▶](#)

	Roles: All	Links
<b>Learn</b>	Introduction to Generative AI	● <a href="#">DS</a> <a href="#">SB</a>
	Introduction to Large Language Models   1 DAY	● <a href="#">DS</a> <a href="#">SB</a>
	Introduction to Responsible AI   1 DAY	● <a href="#">DS</a> <a href="#">SB</a>
	Responsible AI: Applying AI Principles with Google Cloud   1 DAY	● <a href="#">DS</a> <a href="#">SB</a>
<b>Practice</b>	Generative AI Fundamentals   1 DAY	★ <a href="#">SB</a>

## Generative AI for Developers

	Roles: App Developer, ML Engineer, and Data Scientist	Links
<b>Learn</b>	Introduction to Image Generation   1 DAY	● <a href="#">DS</a> <a href="#">SB</a>
	Attention Mechanism   1 DAY	● <a href="#">DS</a> <a href="#">SB</a>
	Encoder-Decoder Architecture   1 DAY	● <a href="#">DS</a> <a href="#">SB</a>
	Transformer Models and BERT Model   1 DAY	● <a href="#">DS</a> <a href="#">SB</a>
	Create Image Captioning Models   1 DAY	● <a href="#">DS</a> <a href="#">SB</a>
	Introduction to Generative AI Studio   1 DAY	● <a href="#">DS</a> <a href="#">SB</a>
	Generative AI Explorer - Vertex AI   5 HOURS	● <a href="#">SB</a>
<b>Practice</b>	Explore and Evaluate Models using Model Garden   1 HOUR	✓ <a href="#">SB</a>
	Prompt Design using PaLM   1 HOUR 30 MINUTES	✓ <a href="#">SB</a>
	Gemini Explorer	★ <a href="#">SB</a>



## Data Analytics



Video ▶

### Roles: Data Engineer

		Links
Get ready	Preparing for the Google Cloud Professional Data Engineer Exam   1 DAY	◊ ● <a href="#">DS</a> <a href="#">SB</a>
	Data Engineering on Google Cloud   4 DAYS	◊ ● <a href="#">DS</a> <a href="#">SB</a> <sup>1</sup>
	Data Warehousing with BigQuery: Storage Design, Query Optimization, and Administrative	◊ <a href="#">DS</a>
	Serverless Data Processing with Dataflow   3 DAYS	◊ ● <a href="#">DS</a> <a href="#">SB</a> <sup>1</sup>
	Data Integration with Cloud Data Fusion   2 DAYS	◊ <a href="#">DS</a>
	Migrating Teradata Users to BigQuery	◊ <a href="#">DS</a>
	Migrating Snowflake Users to BigQuery	◊ <a href="#">DS</a>
	Migrating Amazon Redshift Users to BigQuery	◊ <a href="#">DS</a>
	Managing a Data Mesh with Dataplex	◊ <a href="#">DS</a>
Practice	Prepare Data for ML APIs on Google Cloud	★ <a href="#">SB</a>
	Build a Data Warehouse with BigQuery	★ <a href="#">SB</a>
	Engineer Data for Predictive Modeling with BigQuery ML	★ <a href="#">SB</a>
	Build a Data Mesh with Dataplex	★ <a href="#">SB</a>
Resources	Professional Cloud Data Engineer Exam Guide	■ ↔
	Professional Cloud Data Engineer Sample Questions	■ ↔
Certify	<a href="#">Professional Data Engineer</a>	○ ↔

### Roles: Data Analyst / BI Analyst

		Links
Learn	Introduction to Data Analytics on Google Cloud	● <a href="#">SB</a>
	From Data to Insights with Google Cloud   3 DAYS	◊ ● <a href="#">DS</a> <a href="#">SB</a> <sup>1</sup>
	Analyzing and Visualizing Data in Looker   1 DAY	◊ ● <a href="#">DS</a> <a href="#">SB</a>
	Developing Data Models with LookML   1 DAY	◊ ● <a href="#">DS</a> <a href="#">SB</a>
	Google Cloud Fundamentals for Researchers	◊ <a href="#">DS</a>
	Looker Developer Deep Dive	◊ <a href="#">DS</a>
	Data Warehousing with BigQuery: Storage Design, Query Optimization, and Administration   3 DAYS	◊ <a href="#">DS</a>
Practice	Prepare Data for ML APIs on Google Cloud	★ <a href="#">SB</a>
	Analyze and Visualize Looker Data	★ <a href="#">SB</a>
	Derive Insights from BigQuery Data	★ <a href="#">SB</a>
	Create ML Models with BigQuery ML	★ <a href="#">SB</a>
	Applying Advanced LookML Concepts in Looker	✓ <a href="#">SB</a>
	Data Catalog Fundamentals	✓ <a href="#">SB</a>
	Build LookML Objects in Looker	★ <a href="#">SB</a>
	Manage Data Models in Looker	★ <a href="#">SB</a>



## Productivity and Collaboration

### Roles: Workspace End User

		Links
Optional	Getting Started with Google Workspace Path *	<a href="#">DS</a> <a href="#">SB</a>
Learn	Gmail   3 HOURS	<a href="#">●</a> <a href="#">SB</a>
	Google Calendar   2 HOURS	<a href="#">●</a> <a href="#">SB</a>
	Google Drive   3 HOURS	<a href="#">●</a> <a href="#">SB</a>
	Google Docs   3 HOURS	<a href="#">●</a> <a href="#">SB</a>
	Google Sheets   3 HOURS	<a href="#">●</a> <a href="#">SB</a>
	Google Slides   4 HOURS	<a href="#">●</a> <a href="#">SB</a>
	Google Meet   3 HOURS	<a href="#">●</a> <a href="#">SB</a>
	Google Chat   3 HOURS	<a href="#">●</a> <a href="#">SB</a>
	Google Sheets – Advanced Topics   3 HOURS	<a href="#">●</a> <a href="#">SB</a>
Practice	Begin with Workspace: Essentials	<a href="#">★</a> <a href="#">SB</a>
	Use Functions, Formulas, and Charts in Google Sheets	<a href="#">★</a> <a href="#">SB</a>

### Roles: Workspace End User

		Links
Optional	Gemini for Google Workspace Path *	<a href="#">DS</a> <a href="#">SB</a>
Learn	Introduction to Gemini for Google Workspace   30 MINUTES	<a href="#">●</a> <a href="#">SB</a>
	Gemini in Gmail   30 MINUTES	<a href="#">●</a> <a href="#">SB</a>
	Gemini in Google Docs   30 MINUTES	<a href="#">●</a> <a href="#">SB</a>
	Gemini in Google Slides   30 MINUTES	<a href="#">●</a> <a href="#">SB</a>
	Gemini in Google Sheets   30 MINUTES	<a href="#">●</a> <a href="#">SB</a>
	Gemini in Google Meet   30 MINUTES	<a href="#">●</a> <a href="#">SB</a>
	Gemini in Google Drive   15 MINUTES	<a href="#">●</a> <a href="#">SB</a>


1 - This is a specialization. || \* Available at no cost at Google Cloud Skills Boost.

Note: When a course is offered as both on-demand and in a classroom, the duration reflects the classroom experience. Additional custom training options are available on request.



## Productivity and Collaboration

### Roles: Workspace Administrator

		Links
Prerequisite	Complete End User learning path	
Learn	Preparing for Your Google Workspace Administrator Journey	● DS SB
	Google Workspace Administration *   4-6 WEEKS	● DS SB
Resources	Professional Google Workspace Administrator Exam Guide	■ ↔
	Professional Google Workspace Administrator Sample Questions	■ ↔
Certify	 <a href="#">Professional Google Workspace Administrator</a>	○ ↔

### Roles: Citizen Developer

		Links
Learn	Building No-Code Apps with AppSheet: Foundations *   6 HOURS	● DS SB
	Building No-Code Apps with AppSheet: Implementation *   12 HOURS	● DS SB
	Building No-Code Apps with AppSheet: Automation *   7 HOURS	● DS SB
Practice	Build a Project Tracking App with AppSheet (1 lab)	✓ SB

1 - This is a specialization. || \* Available at no cost at Google Cloud Skills Boost.

Note: When a course is offered as both on-demand and in a classroom, the duration reflects the classroom experience. Additional custom training options are available on request.





## Cloud Digital Leader



### Links

Learn	Digital Transformation with Google Cloud *   2 HOURS	●	<a href="#">DS</a> <a href="#">SB</a>
	Exploring Data Transformation with Google Cloud *   1.5 HOURS	●	<a href="#">DS</a> <a href="#">SB</a>
	Innovating with Google Cloud Artificial Intelligence *   1.5 HOURS	●	<a href="#">DS</a> <a href="#">SB</a>
	Modernize Infrastructure and Applications with Google Cloud *   2.5 HOURS	●	<a href="#">DS</a> <a href="#">SB</a>
	Trust and Security with Google Cloud *   1 HOUR	●	<a href="#">DS</a> <a href="#">SB</a>
	Scaling with Google Cloud Operations *   1 HOUR	●	<a href="#">DS</a> <a href="#">SB</a>
OR			
	Cloud Digital Leader training **	◇	<a href="#">⇄</a>
Resources	Cloud Digital Leader Exam Guide	■	<a href="#">⇄</a>
	Cloud Digital Leader Sample Questions	■	<a href="#">⇄</a>
	Cloud Digital Leader Study Guide	■	<a href="#">⇄</a>
Certify	<a href="#">Cloud Digital Leader</a>	○	<a href="#">⇄</a>

1 - This is a specialization. | \* Available at no cost at Google Cloud Skills Boost. | \*\* Two-day ILT training covers all four on-demand courses.

Note: When a course is offered as both on-demand and in a classroom, the duration reflects the classroom experience. Additional custom training options are available on request.



## Cloud Digital Leader | Finance

**Roles:** Finance professionals who look at Google Cloud bills

Links

Prerequisite | Complete Cloud Digital Leader learning path

Learn	Course Title	Duration	On-demand	Self-paced labs	Skills Boost
	Understanding Google Cloud Costs	5 HOURS	●	✓	<a href="#">SB</a>
	Optimizing Your Google Cloud Costs	7 HOURS	●	✓	<a href="#">SB</a>

## Cloud Digital Leader | Modernization

**Roles:** All members of teams involved with app modernization and workloads moving to Google Cloud

Links

Prerequisite | Complete Cloud Digital Leader learning path

Learn	Course Title	Duration	On-demand	Self-paced labs	Datasheets	Skills Boost	
[	Managing Change when Moving to Google Cloud	1 HOUR	●		<a href="#">DS</a>	<a href="#">SB</a>	
	OR						
	Leading Change when Moving to Google Cloud	1 DAY	◊		<a href="#">DS</a>		
	Developing a Google SRE culture	4 HOURS	●		<a href="#">DS</a>	<a href="#">SB</a>	

## Cloud Digital Leader | Business Analysis

**Roles:** Business analysts using data and potentially ML to operate and transform their line of business

Links

Prerequisite | Complete Cloud Digital Leader learning path

Learn	Course Title	Duration	On-demand	Self-paced labs	Datasheets	Skills Boost
[	Business Transformation with Google Cloud	8 HOURS	●		<a href="#">DS</a>	<a href="#">SB</a>
	OR					
	Data-Driven Transformation with Google Cloud	1 DAY	◊		<a href="#">DS</a>	