

thinqtanklearning.com

Cloud · education services datasheet

OUR LEARNING EXCLUSIVE

- Custom exam prep software and materials
- Course-specific thinQtank[®] Learning publications to make the learning fun and engaging
- Hands-on labs in BigQuery, data pipelines and Google's AI platform
- **We do not teach the test.** We always deliver valuable hands-on experience
- All reading material and study guides sent to you when you register
- Every course taught by Google Cloud-certified practitioners
- Six months mentoring access to our engineers after the course

TRAINING CAMP FORMAT

thinQtank[®] Learning delivers this course as a **four-day instructor-led training camp**, Monday to Thursday. About 50% lecture and 50% hands-on labs and design case studies. Contact us for the schedule covering your dates.

PREREQUISITES

- No certification is required
- 3+ years of industry experience including 1+ years designing and managing solutions using Google Cloud (Google's recommendation)
- Associate Cloud Engineer, or equivalent hands-on Google Cloud experience, is a strong foundation

TARGET AUDIENCE

- Data engineers
- Data architects
- Analytics / BI engineers
- ML data pipeline engineers

CERTIFICATION

This course prepares you for the Google Cloud Professional Data Engineer certification exam.

Delivery	Online proctored or Pearson VUE test center
Format	40–50 questions, 120 minutes
Exam fee	\$200, set by Google Cloud
Renewal	Valid 2 years

COURSE OVERVIEW

thinQtank[®] Learning is offering a unique four-day training camp comprised of four days of instructor-led learning that gives students the knowledge and skills needed to design data processing systems, ingest and process batch and streaming data, choose and manage storage, prepare data for analysis, and maintain and automate data workloads with BigQuery, Dataflow, Pub/Sub and Dataproc.

The camp follows the five sections of the current Google Cloud Professional Data Engineer exam guide, with hands-on labs in BigQuery, data pipelines and Google's AI platform throughout.

This course prepares you for **the Google Cloud Professional Data Engineer certification exam**.

WHAT YOU WILL BE ABLE TO DO

- Design data processing systems for security, compliance, reliability and portability
- Design data migrations
- Plan, build, deploy and operationalize data pipelines
- Select storage systems and plan data warehouses, data lakes and data platforms
- Prepare and share data for visualization, AI and ML
- Optimize resources and design automation and repeatability
- Monitor, troubleshoot and mitigate failures in data workloads

EXCLUSIVE LEARNING PACKAGE

- Professional Data Engineer reading plan and review guide
- Professional Data Engineer practice exams
- Lab guide you keep after the course
- Course video recordings for review

DELIVERY METHODS

- Instructor-led training
- Immersive live-online training
- On-site and custom delivery

GOOGLE CLOUD CERTIFICATION PATHS				
Foundational Cloud Digital Leader · Generative AI Leader <i>Business, sales and non-technical roles</i>	Associate Cloud Engineer · Workspace Admin · Data Practitioner <i>Hands-on admins and early-career engineers</i>	Infrastructure & Apps Architect · Developer · DevOps · Network · Database <i>Architects, developers and operators</i>	Data & AI Data Engineer · ML Engineer · Agentic Architect <i>Data and AI builders</i>	Security Cloud Security Engineer · Security Operations Engineer <i>Security engineers and SOC teams</i>
COURSE MODULES				
01 Introduction to Data Engineering on Google Cloud	02 Designing for Security and Compliance			
03 Reliability, Flexibility and Portability	04 Designing Data Migrations			
05 Planning and Building Data Pipelines	06 Batch and Streaming Processing			
07 Selecting Storage Systems	08 Data Warehouses with BigQuery			
09 Data Lakes and Data Platforms	10 Preparing Data for Analysis, AI and ML			
11 Optimizing and Automating Data Workloads	12 Monitoring, Troubleshooting and Failure Mitigation			
13 Exam Review				
EXAM DOMAINS				
Designing data processing systems		22%		
Ingesting and processing the data		25%		
Storing the data		20%		
Preparing and using data for analysis		15%		
Maintaining and automating data workloads		18%		

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LEARNING

TERMS

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