

thinQtanklearning.com

Artificial Intelligence · 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 on Google Cloud: BigQuery ML, AutoML, notebooks and ML pipelines
- **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 ML engineers
- Six months mentoring access to our engineers after the course

TRAINING CAMP FORMAT

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

PREREQUISITES

- No certification is required
- Google recommends three or more years of industry experience, including one year designing and managing solutions on Google Cloud
- Ability to read Python and SQL

TARGET AUDIENCE

- Machine learning engineers and data scientists
- AI/ML solutions architects
- MLOps engineers
- Data engineers moving into ML

CERTIFICATION

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

Delivery	Online proctored or Pearson VUE test center
Format	50–60 questions, two hours; passing score not published
Exam fee	\$200, set by Google Cloud
Renewal	Recertify within Google's renewal window

COURSE OVERVIEW

thinQtank[®] Learning is offering a unique five-day training camp comprised of five days of instructor-led learning that gives students the knowledge and skills needed to build low-code models with BigQuery ML and AutoML, use Google Cloud AI APIs and Gemini foundation models, prototype and train scalable models, serve them for batch and online inference, automate ML pipelines and retraining, and monitor and troubleshoot AI solutions responsibly.

The camp follows the six sections of the current Google Cloud Professional Machine Learning Engineer exam guide, updated for the move from Vertex AI to Gemini Enterprise Agent Platform, with hands-on labs on Google Cloud throughout.

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

WHAT YOU WILL BE ABLE TO DO

- Build low-code models with BigQuery ML or AutoML and solutions with Google Cloud AI APIs and foundation models
- Explore and preprocess data and prototype models in notebooks
- Track and run ML experiments
- Build and train models with cost, latency and scalability in mind and choose training hardware
- Serve models for batch and online inference and scale serving
- Develop end-to-end ML pipelines and automate retraining
- Identify risks and monitor, test and troubleshoot AI solutions, applying responsible AI practices

EXCLUSIVE LEARNING PACKAGE

- PMLE reading plan and review guide
- Professional ML 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

AI CERTIFICATION TRAINING PATHS				
Foundations AWS AI Practitioner · Azure AI Fundamentals Use AI: business, IT and early-career	Build AI AWS ML Engineer · Google ML Engineer · AI-103 · NVIDIA LLMs Developers and ML engineers	Secure AI CompTIA SecAI+ · ISACA AAISM Security practitioners and leaders	Govern & Audit AI ISACA AAIA · IAPP AIGP Audit, privacy, legal and compliance	Lead AI PMI-CPMAI · EC-Council C AIPM Project, program and business leaders

COURSE MODULES	
01 The ML Engineer Role on Google Cloud	02 Low-Code ML with BigQuery ML and AutoML
03 AI APIs and Foundation Models (Gemini)	04 Data Exploration and Preprocessing
05 Prototyping Models in Notebooks	06 ML Experiment Tracking
07 Building Scalable Models	08 Training Models and Choosing Hardware
09 Serving Models for Batch and Online Inference	10 Scaling Online Serving
11 End-to-End ML Pipelines	12 Automating Retraining and CI/CD
13 Monitoring, Testing and Troubleshooting AI Solutions	14 Responsible AI and Exam Review

EXAM DOMAINS		
Architecting low-code AI solutions		13%
Collaborating to manage data and models		16%
Scaling prototypes into ML models		21%
Serving and scaling models		20%
Automating and orchestrating ML pipelines		18%
Monitoring AI solutions		13%



TERMS

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