

OUR LEARNING EXCLUSIVE

- Custom exam prep software and materials
- Exam delivery in the classroom, with a **98% success rate**
- **We do not teach the test.** Extended hours of immersive, hands-on work
- All reading material and study guides sent to you when you register
- Every course taught by practising data scientists

TRAINING CAMP FORMAT

thinQtank® Learning delivers this course as an **instructor-led training camp**, with the exam sat in the classroom as part of the camp. Camps are scheduled by cohort rather than to a fixed calendar, and the balance of lecture and modelling work is set to suit the group and the delivery method. Contact us for the schedule covering your dates.

PREREQUISITES

- Working fluency in Python or R and in SQL, used on real datasets
- Comfortable with statistics, linear algebra and probability at working level
- **This is an Xpert Series exam.** CompTIA recommends five or more years in data science or a similar role. This camp sharpens and certifies existing practice — it does not teach data science from the beginning

TARGET AUDIENCE

- Practising data scientists seeking a vendor-neutral credential for the work they already do
- Machine learning and MLOps engineers taking models into production
- Data analysts and statisticians moving into modelling and ML roles
- Service members, veterans and military spouses using AF COOL, Army CA, MyCAA or VET TEC 2.0

EXAM

DY0-001 — CompTIA DataAI (formerly DataX)

90 questions, 165 minutes, pass/fail — no scaled score.

DataAI is scored **pass/fail with no scaled score**. It was released on 25 July 2024 as part of the CompTIA Xpert Series, and was formerly branded **DataX** — the same certification under its earlier name.

DELIVERY METHODS

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

COURSE OVERVIEW

thinQtank® Learning offers an industry-unique training camp in which students earn the **CompTIA DataAI** certification. As with all our CompTIA training experiences, the exam is delivered in the classroom.

DataAI is CompTIA's **Xpert Series** credential for the working data scientist, and was previously branded **DataX**. It covers the mathematics and statistics underneath the work, modelling and analysis, machine learning, and the operational reality of getting a model into production and keeping it honest once it is there.

The course maps to exam **DY0-001**, with objective coverage marked throughout. It is a certification camp for people already doing this work — the week sharpens and validates existing practice rather than teaching data science from scratch.

WHAT YOU WILL BE ABLE TO DO

- Choose and defend a modelling approach for a given problem and dataset
- Take a model from notebook to production and monitor it for drift
- Explain what a model is doing to people who will act on its output
- Apply governance, bias review and documentation that stands up to scrutiny

COURSE OBJECTIVES

Primary course objectives:

- Apply the mathematics and statistics data science actually rests on
- Frame a business problem as a data problem with a measurable outcome
- Prepare, clean and engineer features without leaking information
- Select, train and tune models, and justify the choice
- Evaluate honestly: the right metric, cross-validation and over-fitting
- Apply machine learning across supervised, unsupervised and deep approaches
- Deploy, monitor and retrain models, and detect drift before it costs anything
- Address bias, explainability, ethics and governance in the work

EXCLUSIVE LEARNING PACKAGE

- Modelling lab with prepared datasets and notebooks
- Deployment and monitoring exercise set
- DataAI video course
- Model documentation and ethics review templates
- DataAI reading plan and review guide
- DataAI certification practice exam

COURSE MODULES

01 Mathematics and Statistics 17%

- Topic A: Probability and distributions in practice
- Topic B: Inference, hypothesis testing and significance
- Topic C: Linear algebra for modelling
- Topic D: Experimental design and sampling

02 Modeling, Analysis and Outcomes 24%

- Topic A: Framing a business problem as a data problem
- Topic B: Data preparation, cleaning and feature engineering
- Topic C: Model selection and tuning
- Topic D: Evaluation metrics and cross-validation
- Topic E: Communicating results to a decision-maker

03 Machine Learning 24%

- Topic A: Supervised learning: regression and classification
- Topic B: Unsupervised learning: clustering and dimensionality reduction
- Topic C: Neural networks and deep learning
- Topic D: Ensembles, boosting and model stacking
- Topic E: Over-fitting, regularisation and generalisation

04 Operations and Processes 22%

- Topic A: Data pipelines, storage and versioning
- Topic B: Deployment paths from notebook to production
- Topic C: Monitoring, drift detection and retraining
- Topic D: Governance, bias review and model documentation
- Topic E: Reproducibility and collaboration

05 Specialized Applications 13%

- Topic A: Natural language processing
- Topic B: Computer vision
- Topic C: Time series and forecasting
- Topic D: Optimisation and simulation

WHAT IT COSTS, WHAT IS INCLUDED

Training camp, five days	\$2,150
CompTIA DataAI exam voucher (DY0-001)	\$470
Exam sat in the classroom on the final day	included
Retakes of any part of the course for 24 months	included
Six months mentoring with our engineers	included

WAYS TO PAY

- **AF COOL** — Air Force and Space Force enlisted
- **Army Credentialing Assistance** — enlisted and warrant officers
- **MyCAA** — military spouses
- **VET TEC 2.0** — veterans and separating service members
- **thinQflex™** — name your own price, paid over twelve months

WHERE IT RUNS

- **Sterling, VA** — 21481 Ridgetop Cir
- **Atlanta, GA** — 431 Marietta St NW
- **Burbank, CA** — 3301 N San Fernando Blvd
- Five days, Monday to Friday. Also delivered live-online and on-site.

TERMS

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