

# HPE AI and Machine Learning (0001205272)

## H61X2S

<b>Course ID</b>	H61X2S
<b>Duration</b>	3 days
<b>Format</b>	ILT, VILT
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This course teaches you how to use HPE Machine Learning Data Management and HPE Machine Learning Development Environment software. In addition to hands-on labs and activities that guide you through machine learning and deep learning fundamentals, it covers the software architecture and ways to deploy HPE machine learning solutions. This course also offers the chance to explore HPE Machine Learning Data Management repos and pipelines.

Other subjects include:

- How to run deep learning experiments and train models using the HPE Machine Learning Development Environment.
- The HPE Machine Learning Development System, a solution that combines HPE Machine Learning Development Environment software and HPE infrastructure.
- How to position HPE Machine Learning Development solutions based on customer needs, and how to set up a proof-of-concept or demo environment.

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### Audience

The ideal candidate for this course is anyone who needs to learn how to describe, position, recommend, and demonstrate HPE Machine Learning Data Management and HPE Machine Learning Development solutions. This course helps candidates prepare for the exam HPE2-T38 – HPE AI and Machine Learning

### Course objectives

After completing this course, you should be able to:

- Understand machine learning and deep learning fundamentals
- Describe the value propositions of HPE Machine Learning Development solutions
- Use determined AI to train models
- Qualify customers and run a proof-of-concept

## Detailed course outline

### Module 1: Understand Machine Learning and Deep Learning Fundamentals

- Machine learning technology evolution
- Machine learning and deep learning model training
- Consideration of issues data scientists confront during model training
- Standard tools and frameworks for deep learning pipelines such as PyTorch and TensorFlow
- Hyperparameter optimization (HPO)
- Distributed (multi-GPU) training

### Module 2: Describe the Value Propositions of HPE Machine Learning Solutions

- HPE Machine Learning Data Management value proposition
- HPE Machine Learning Development Environment value proposition
- Common customer challenges in deep learning
  - A high-level look at how HPE Machine Learning Data Management and HPE Machine Learning Development Environment address these challenges
- Where HPE machine learning solutions fit in the market
- A high-level look at HPE Machine Learning Data Management and HPE Machine Learning Environment capabilities
- Distinguishing features of HPE Machine Learning Development systems

### Module 3: Using HPE Machine Learning Data Management Capabilities

- Repos and their data versioning and data lineage capabilities
- Pipelines and ways to use them

### Module 4: Using HPE Machine Learning Development Environment to Train Models

- HPE Machine Learning Development Environment software architecture
- Flexible options for software-only deployment on on-prem servers or in the cloud
- Intro to training a model on the HPE Machine Learning Development Environment
- Detailed AI and Machine Learning training concepts
- Using HPE Machine Learning Development Environment to run experiments, including experiments that feature distributed training and HPO
- Experiment concepts and the relationships between workloads, trials, and experiments
- Scheduling concepts
- Model registry

### Module 5: Qualifying Customers and Running a Demonstration

- Engaging and qualifying customers for an HPE Machine Learning Development Environment opportunity
- Engaging and qualifying customers for an HPE Machine Learning Development System opportunity

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