AI+ Agile Project Management Fundamentals

Category: AI, Data & Analytics | **Vendor:** AI Certs

Duration: 1.00 hours (1 days) **0.8 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format:	vILT
Certification:	AI+ Agile Project Management Fundamentals
Related Exam:	AI-PMF

Course Overview

This comprehensive 3-day instructor-led training provides a deep dive into data engineering practices and solutions on Amazon Web Services (AWS). Participants will learn how to design, build, optimize, and secure data engineering solutions by using AWS services. Topics range from foundational concepts to hands-on implementation of data lakes, data warehouses, and both batch and streaming data pipelines. This course equips data professionals with the skills needed to architect and manage modern data solutions at scale.

About This Course

This comprehensive 3-day instructor-led training provides a deep dive into data engineering practices and solutions on Amazon Web Services (AWS). Participants will learn how to design, build, optimize, and secure data engineering solutions by using AWS services. Topics range from foundational concepts to hands-on implementation of data lakes, data warehouses, and both batch and streaming data pipelines. This course equips data professionals with the skills needed to architect and manage modern data solutions at scale.

Who Should Attend

Basic understanding of AWS services

Familiarity with database concepts

Basic programming or scripting knowledge

Understanding of data processing fundamentals

Learning Outcomes

Upon successful completion of this course, participants will be able to:

Design and implement scalable data lakes and data warehouses on AWS.

Build, optimize, and secure batch data processing pipelines.

Develop and manage streaming data solutions.

Apply best practices for data governance and security.

Automate data engineering workflows by using AWS services.

Implement access control and security measures for data solutions.

Detailed Course Outline

Data Engineering Roles and Key Concepts

The role of a data engineer

Data discovery for a data analytics system

AWS services for data workflows

Continuous integration and continuous delivery

Networking considerations

Designing and Implementing Data Lakes

Data lake introduction

Data lake storage

Ingest data

Catalog data

Transform data

Serve data for consumption

Lab: Setting up a Data Lake on AWS

Optimizing and Securing Data Lake Solutions

Optimizing performance

Security using Lake Formation

Setting permissions with Lake Formation

Security and governance

Troubleshooting

Lab: Automating Data Lake Creation using AWS Lake Formation Blueprints

Data Warehouse Architecture and Design Principles

Introduction to data warehouses

Amazon Redshift overview

Ingesting data into Amazon Redshift

Processing data

Serving data for consumption

Lab: Setting up a Data Warehouse using Amazon Redshift Serverless

Performance Optimization Techniques for Data Warehouses

Monitoring and optimization options

Data optimization in Amazon Redshift

Query optimization in Amazon Redshift

Data orchestration

Security and Access Control for Data Warehouses

Authentication and access control in Amazon Redshift

Data security in Amazon Redshift

Lab: Working with Amazon Redshift

Designing Batch Data Pipelines

Introduction to batch data pipelines

Designing a batch data pipeline

Ingesting batch data

Implementing Strategies for Batch Data Pipelines

Processing and transforming data

Transforming data formats

Integrating your data

Cataloging data

Serving data for consumption

Lab: A Day in the Life of a Data Engineer

Optimizing, Orchestrating, and Securing Batch Data Pipelines

Optimizing the batch data pipeline

Orchestrating the batch data pipeline

Securing the batch data pipeline

Lab: Orchestrating Data Processing in Spark using AWS Step Functions

Streaming Data Architecture Patterns

Introduction to streaming data pipelines

Ingesting data from stream sources

Storing streaming data

Processing streaming data

Analyzing streaming data

Lab: Streaming Analytics with Amazon Managed Service for Apache Flink

Optimizing and Securing Streaming Solutions

Optimizing a streaming data solution

Securing a streaming data pipeline

Lab: Access Control with Amazon Managed Streaming for Apache Kafka

Compliance and Cost Optimization

Compliance considerations

Cost optimization tools

Course Wrap-Up

□□ Certification Path

AI+ Agile Project Management Fundamentals

Exam: AI-PMF

Frequently Asked Questions

Q: What delivery options are available for AI+ Agile Project Management Fundamentals?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: What certification does this course prepare me for?

The AI+ Agile Project Management Fundamentals course helps prepare you for the AI+ Agile Project Management Fundamentals certification path.

Q: Which exam does this course prepare me for?

This course prepares you for the AI-PMF official exam. You can take this exam at any exam center across United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online wherever you are located.

Q: How many CPD hours does this course provide?

The 1-day AI+ Agile Project Management Fundamentals course provides up to 0.8 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the AI+ Agile Project Management Fundamentals training?

The training takes place over 1 day(s), with each day lasting approximately 1.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for AI+ Agile Project Management Fundamentals?

Yes, we provide corporate training, dedicated training, and closed classes for AI+ Agile Project Management Fundamentals. Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: What related terms do people search for?

Popular related searches include: AI+ Agile Project Management Fundamentals, AI Certs, vILT

Q: Why choose Nexus Human for AI+ Agile Project Management Fundamentals?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your AI+ Agile Project Management Fundamentals training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

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