AZ-2010 Design and Implement Platform Engineering

Category: Infrastructure & IT Operations | **Vendor:** Microsoft Technical

Duration: 8.00 hours (1 days) **6.5 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format:	Instructor Led - Online
Certification:	Microsoft Applied Skills: Design and implement platform engineering
Related Exam:	AZ-2010

Course Overview

This course provides a comprehensive guide to designing and implementing platform engineering within modern enterprises. It covers the foundational principles, strategic alignment with business goals, and the practical aspects of building scalable, secure, and future-proof platforms. By taking this course, learners will gain the knowledge and skills needed to enhance developer productivity, ensure operational excellence, and drive continuous innovation.

About This Course

This course provides a comprehensive guide to designing and implementing platform engineering within modern enterprises. It covers the foundational principles, strategic alignment with business goals, and the practical aspects of building scalable, secure, and future-proof platforms. By taking this course, learners will gain the knowledge and skills needed to enhance developer productivity, ensure operational excellence, and drive continuous innovation.

Who Should Attend

This course is designed for professionals involved in platform engineering, including software engineers, DevOps practitioners, IT architects, and technical leaders. It is also suitable for individuals responsible for designing, implementing, and managing platform solutions within their organizations. The target audience includes Software Engineers and Developers, DevOps Practitioners, IT Architects, Technical Leaders and Managers, Platform Engineers and Security and Compliance Professionals.

Prerequisites & Entry Requirements

General Prerequisites:

Successful learners will have prior knowledge and understanding of the following:

- Cloud computing concepts include understanding PaaS, SaaS, and IaaS implementations.
- Azure administration and Azure development with proven expertise in at least one of these areas.
- Intermediate to advanced DevOps concepts, including version control, Agile software development, and core software development principles. It would be helpful to have experience in an organization that delivers software.

Learning Outcomes

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

Understand the fundamentals of platform engineering and its impact on developer productivity.

Design secure, scalable, and compliant platform architectures.

Implement automation to reduce manual errors and accelerate deployments.

Enable developer self-service for agility and innovation while maintaining governance.

Leverage observability to monitor system performance and optimize resources.

Establish a culture of continuous improvement for platform evolution.

Develop strategic roadmaps aligning platform initiatives with business goals.

Optimize cost and capacity planning to ensure efficient resource utilization.

Detailed Course Outline

1 - Foundations of Platform Engineering

- The Role of Platform Engineering in Modern Enterprises
- Core Principles of Platform Design
- Platform Engineering Capability Model
- Core Aspects of Platform Implementation
- Module assessment

2 - Design Secure and Scalable Platform Architectures

- Core Principles of Secure and Scalable Platform Design
- Security Considerations in Platform Architecture
- Scale Platform Architectures for Growth and Adaptability
- Automation and Resiliency for Modern Platforms
- Module assessment

3 - Implement Developer Self-Service

- Developer Self-Service Platform Architecture
- Governance and Security in Self-Service Workflows
- Developer Coding Environments
- Automation and Self-Service Tools
- Monitor and Audit Developer Activities
- Implement Microsoft Dev Box
- Module assessment

4 - Observability and Continuous Improvement

- The Importance of Observability in Modern Platforms
- Build Observability into Platform Architecture
- Metrics, Monitoring, and Alerts
- Automation for Incident Detection and Resolution
- Continuous Improvement through Feedback Loops
- Implementing Real-Time Monitoring with Azure Monitor
- Module assessment

5 - Strategic Platform Road Mapping

- Understand the Strategic Importance of Platform Engineering
- Develop a Scalable Platform Architecture
- Future-Proofing the Platform
- Continuous Improvement and Innovation Management
- Roadmap Development and Execution
- Risk Management in Platform Engineering
- Communicate the Roadmap to Stakeholders
- Implementing Self-Service Infrastructure with Bicep
- Module assessment

, Foundations of Platform Engineering

Introduction

The Role of Platform Engineering in Modern Enterprises

Core Principles of Platform Design

Platform Engineering Capability Model

Core Aspects of Platform Implementation

Design Secure and Scalable Platform Architectures

Introduction

Core Principles of Secure and Scalable Platform Design

Security Considerations in Platform Architecture

Scale Platform Architectures for Growth and Adaptability

Automation and Resiliency for Modern Platforms

Implement Developer Self-Service

Introduction

Introduction to Developer Self-Service

Developer Self-Service Platform Architecture

Governance and Security in Self-Service Workflows

Developer Coding Environments

Automation and Self-Service Tools

Monitor and Audit Developer Activities

Implement Microsoft Dev Box

Observability and Continuous Improvement

Introduction

The Importance of Observability in Modern Platforms

Build Observability into Platform Architecture

Metrics, and Alerts

Automation for Incident Detection and Resolution

Continuous Improvement through Feedback Loops

Implementing Real-Time Monitoring with Azure Monitor

Strategic Platform Road Mapping

Introduction

Understand the Strategic Importance of Platform Engineering

Develop a Scalable Platform Architecture

Future-Proofing the Platform

Continuous Improvement and Innovation Management

Roadmap Development and Execution

Risk Management in Platform Engineering

Communicate the Roadmap to Stakeholders

Implementing Self-Service Infrastructure with Bicep

Certification Path

Microsoft Applied Skills: Design and implement platform engineering

Exam: AZ-2010

Frequently Asked Questions

Q: What delivery options are available for AZ-2010 Design and Implement Platform Engineering?

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 AZ-2010 Design and Implement Platform Engineering course helps prepare you for the Microsoft Applied Skills: Design and implement platform engineering certification path.

Q: Which exam does this course prepare me for?

This course prepares you for the AZ-2010 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 AZ-2010 Design and Implement Platform Engineering course provides up to 6.5 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the AZ-2010 Design and Implement Platform Engineering training?

The training takes place over 1 day(s), with each day lasting approximately 8.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for AZ-2010 Design and Implement Platform Engineering?

Yes, we provide corporate training, dedicated training, and closed classes for AZ-2010 Design and Implement Platform Engineering. 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: AZ-2010: Design and Implement Platform Engineering, Microsoft, vILT, AZ-2010

Q: Why choose Nexus Human for AZ-2010 Design and Implement Platform Engineering?

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 AZ-2010 Design and Implement Platform Engineering 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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