

## AZ-2010: Designing and Implementing Platform Engineering

### Course Outline

#### **1) Foundations of Platform Engineering**

- Understand the importance of platform engineering in enhancing developer productivity and accelerating time-to-value
- Learn how to design and build integrated platforms that optimize the developer experience and streamline development efforts
- Explore the role of platform engineering in driving digital transformation within an enterprise
- Recognize the strategic value of platform engineering as the foundation for both technical success and alignment with broader business goals
- Identify key stakeholders in platform engineering and understand their distinct expectations and requirements

#### **2) Design Secure and Scalable Platform Architectures**

- Gain insights into designing platform architectures that are secure, scalable, and compliant with regulatory standards
- Explore the role of automation in maintaining consistency, reducing manual errors, and accelerating deployments
- Understand the importance of capacity planning and estimation for forecasting future resource needs
- Learn cost optimization strategies to manage resources efficiently and avoid over-provisioning
- Discover how to implement scalable solutions that can handle increasing demand and complex workflows

#### **3) Implement Developer Self-Service**

- Learn how to enable developers to independently manage their resources and workflows, fostering agility and innovation
- Understand the importance of combining flexibility with robust governance to ensure security, compliance, and operational consistency
- Explore the benefits of developer self-service in accelerating development cycles and reducing bottlenecks
- Recognize the role of self-service platforms in enhancing developer satisfaction and productivity
- Identify best practices for implementing and managing self-service capabilities within an organization

#### **4) Observability and Continuous Improvement**

- Discover the significance of observability in providing real-time insights into system performance and identifying inefficiencies
- Understand how continuous improvement creates a feedback loop that drives platform enhancements and optimizes resources
- Learn about benchmarking and performance monitoring to track the success of the platform and identify areas for improvement

- Explore strategies for adapting to market trends and anticipating shifts in user needs or technological landscapes
- Foster a culture of innovation within platform engineering teams to continuously propose and test new ideas

## 5) Strategic Platform Road Mapping

- Learn how to align platform engineering initiatives with long-term organizational goals and market trends
- Explore key principles of strategic platform road mapping, including preparing for technological advancements and fostering innovation
- Understand the importance of defining a clear platform vision that aligns with broader organizational goals
- Discover how to build a platform roadmap with actionable milestones and specific deliverables
- Learn techniques for phased implementation and prioritization to ensure the platform evolves in a way that supports business goals