

Microsoft Azure

Always Available, Effortlessly Accessible,
and Endlessly Reliable



AZ – 500

Microsoft Azure Security Technologies

Overview

This course provides IT Security Professionals with the knowledge and skills needed to implement security controls, maintain an organization's security posture, and identify and remediate security vulnerabilities. This course includes security for identity and access, platform protection, data and applications, and security operations.

Course Objectives

By the end of this course, participants will be able to:

- Manage identity and access
- Secure networking
- Secure compute, storage, and databases
- Manage security operations

Prerequisites

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

- Security best practices and industry security requirements include depth defense, least privileged access, role-based access control, multi-factor authentication, shared responsibility, and zero trust model.
- Be familiar with security protocols such as Virtual Private Networks (VPN), Internet Security Protocol (IPSec), Secure Socket Layer (SSL), and disk and data encryption methods.
- Have some experience deploying Azure workloads. This course does not cover the basics of Azure administration. Instead, the course content builds on that knowledge by adding security specific information.
- Have experience with Windows and Linux operating systems and security-specific. Course labs may use PowerShell and the CLI.

Audience Profile

This course is for Azure Security Engineers who are planning to take the associated certification exam, or who are performing security tasks in their day-to-day job. This course would also be helpful to an engineer that wants to specialize in providing security for Azure-based digital platforms and play an integral role in protecting an organization's data.

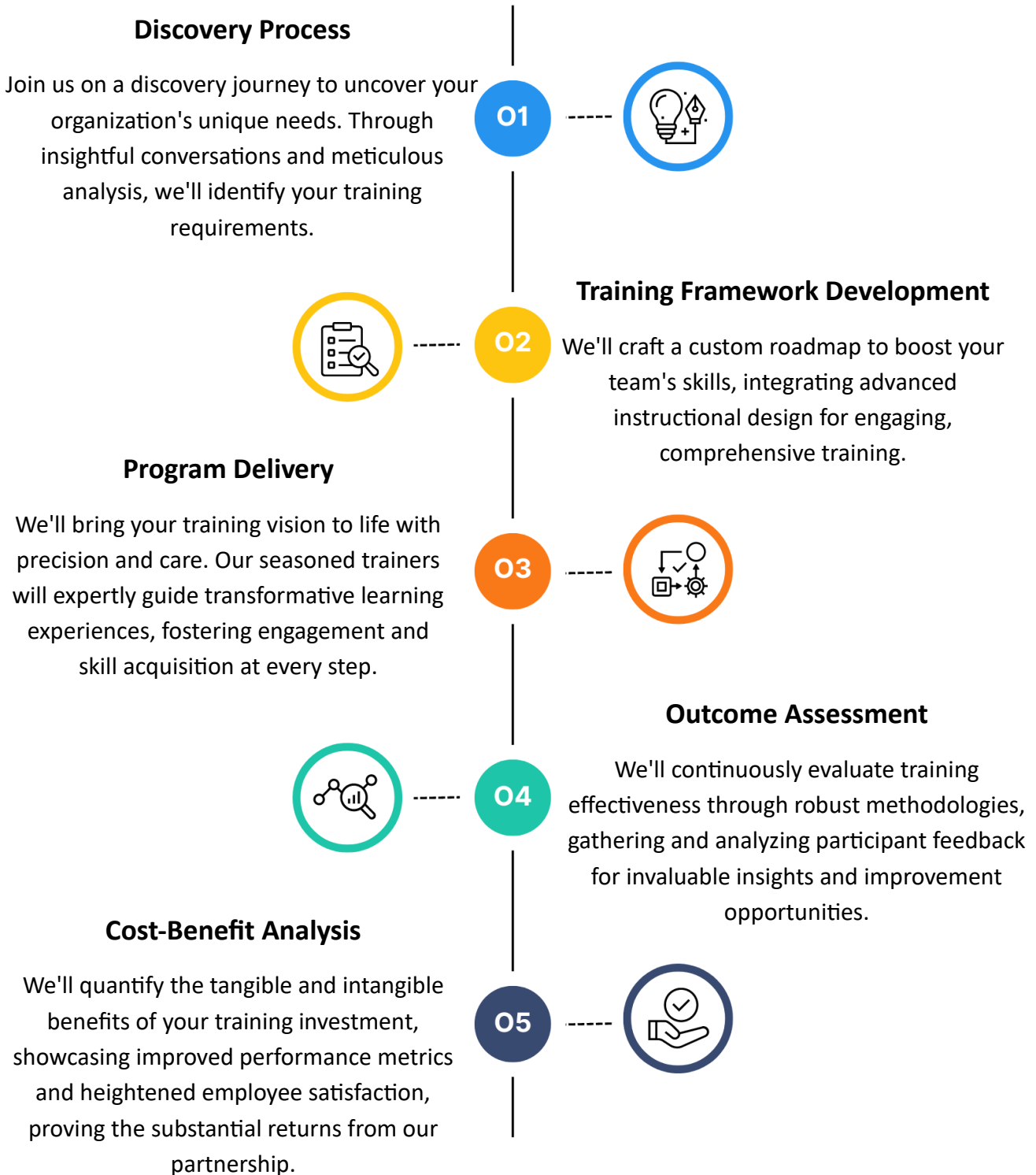
Course Level

- Intermediate

Course Duration

- 4 Days – 32 Hours

Creating Tailor - Made Training Programs to Meet Your **Specific Goals**



Course Outline

As the Azure security engineer, you implement, manage, and monitor security for resources in Azure, multi-cloud, and hybrid environments as part of an end-to-end infrastructure. You recommend security components and configurations to protect the following:

- Identity and access
- Data
- Applications
- Networks

Your responsibilities as an Azure security engineer include:

- Managing the security posture.
- Identifying and remediating vulnerabilities.
- Performing threat modelling.
- Implementing threat protection.

You may also participate in responding to security incidents. As an Azure security engineer, you work with architects, administrators, and developers to plan and implement solutions that meet security and compliance requirements.

You should have:

- Practical experience in administration of Microsoft Azure and hybrid environments.
- Strong familiarity with compute, network, and storage in Azure and Microsoft Entra ID.

Module 1: Manage identity and access

- Lesson: Manage identities in Microsoft Entra ID
- Lesson: Manage authentication by using Microsoft Entra ID
- Lesson: Manage authorization by using Microsoft Entra ID
- Lesson: Manage application access in Microsoft Entra ID
- **Lab 01** – Role-based Access Control

Module 2: Secure Networking

- Lesson: Plan and implement security for virtual networks
- Lesson: Plan and implement security for private access to Azure resources
- Lesson: Plan and implement security for public access to Azure resources
- **Lab 02** – Network and application security groups
- **Lab 03** – Azure firewall

Module 3: Secure compute, storage, and databases

- Lesson: Plan and implement advanced security for compute
- Lesson: Plan and implement security for storage
- Lesson: Plan and implement security for Azure SQL Database and Azure SQL Managed Instance
- **Lab 04** – Configuring and securing ACR and AKS
- **Lab 05** – Securing Azure SQL Database
- **Lab 06** – Service Endpoints and Securing Storage

Module 4: Manage security operations

- Lesson: Plan, implement, and manage governance for security
- Lesson: Manage security posture by using Microsoft Defender for Cloud
- Lesson: Configure data collection in Azure Monitor
- Lesson: Configure and manage threat protection by using Microsoft Defender for Cloud
- Lesson: Configure and manage security monitoring and automation solutions
- **Lab 07** - Key Vault
- **Lab 08** - Azure Monitor
- **Lab 09** - Microsoft Defender for Cloud
- **Lab 10** - Microsoft Sentinel

Indus Tech Services

Who We Are....

Indus Tech Services is an IT company that specializes in providing comprehensive training, consulting & implementation services for software solutions designed to address the diverse business challenges faced by organizations today. With a passion for technology and a deep understanding of business processes, Indus Tech is committed to empowering businesses to optimize their operations, boost productivity, and drive sustainable growth.

Indus Tech Services and Microsoft Partnership

As a proud **Microsoft Partner**, **Indus Tech Services** is uniquely equipped to deliver top-tier training and certification programs designed to meet the evolving needs of today's workforce. Our partnership with Microsoft allows us to offer direct access to the latest tools, resources, and industry insights, ensuring that our courses are aligned with the most current technology trends. This collaboration enables us to provide unparalleled support to our students, helping them gain the skills and knowledge required to excel in their careers. By choosing Indus Tech Services, you're not just learning; you're gaining a competitive edge with Microsoft-backed expertise and certification.

Why Choose Us...

From time to time, life serves up a profound nudge, urging us to step beyond our routines and make a difference in the world. Indus Tech Services emerged from one such compelling wake-up call. We are not just a company; we are a dedicated force with a belief in providing solutions to organizations, regardless of their size, and we infuse a human touch into everything we do.

Our Expertise

With over 25 years of collective experience navigating the intricacies of daily business transactions, irrespective of geographical, cultural, time zone, or language barriers, our team has honed their expertise to meet any challenge head-on. This wealth of experience has armed our resources with an unparalleled understanding and skill set to tackle a broad spectrum of obstacles.

Training

With two decades of unwavering commitment and a global footprint, our company is a true pioneer in the fields of linguistic, transactional, technical, and behavioural training for some of the world's largest corporate entities. Our unparalleled expertise has been refined through years of dedication and innovation, making us the go-to choice for businesses seeking transformative training solutions.

Consulting

Our company has been at the forefront of providing world-class IT consulting services to organizations spanning the globe. With an extensive and proven track record, we have honed our expertise to meet the ever-evolving technological needs and challenges faced by businesses, regardless of their scale or industry.

Implementation

Our experience covers a broad spectrum of IT implementation services, including system integration, software deployment, network architecture, cloud migration, and infrastructure setup. We understand that the successful execution of IT projects is pivotal to an organization's growth and efficiency. Therefore, we bring a depth of knowledge and a commitment to delivering results that set us apart.

To know more contact us at info@industechservices.com or call us at +91 - 99961 61170.