

StandEx Digital – Tech Elevate Program

**CLOUD ENGINEERING, AI
& DEVOPS**

Agenda

- Introduction
- Course Structure
- Month 1: Foundations of Cloud Computing with Azure
- Month 2: Advanced Azure Services and Data Solutions
- Month 3: AI, Machine Learning, and Advanced Azure Topics
- Additional Course Components
- Detailed Weekend Schedule
- Enrollment Information



Program Overview

- Focus Areas
 - Cloud Computing
 - Artificial Intelligence
 - DevOps
- Platform
 - Microsoft Azure
- Target Audience
 - Individuals entering the tech industry
 - Professionals looking to advance their careers
- Program Benefits
 - Practical expertise in cutting-edge technologies
- Outcome

Program Highlights

- Comprehensive Curriculum
 - Covers foundational to advanced Azure skills
 - Includes Cloud Basics, AI, and DevOps
- Practical Work Experience
 - Hands-on labs and projects
 - Simulates UK work environments
- Azure Credits
 - Free \$500 Azure credits
 - Available for the first 30 students
- Microsoft Partner Certification Guidance
 - Guidance on certifications
 - Includes AZ-900, AZ-104, AZ-204, and AZ-305



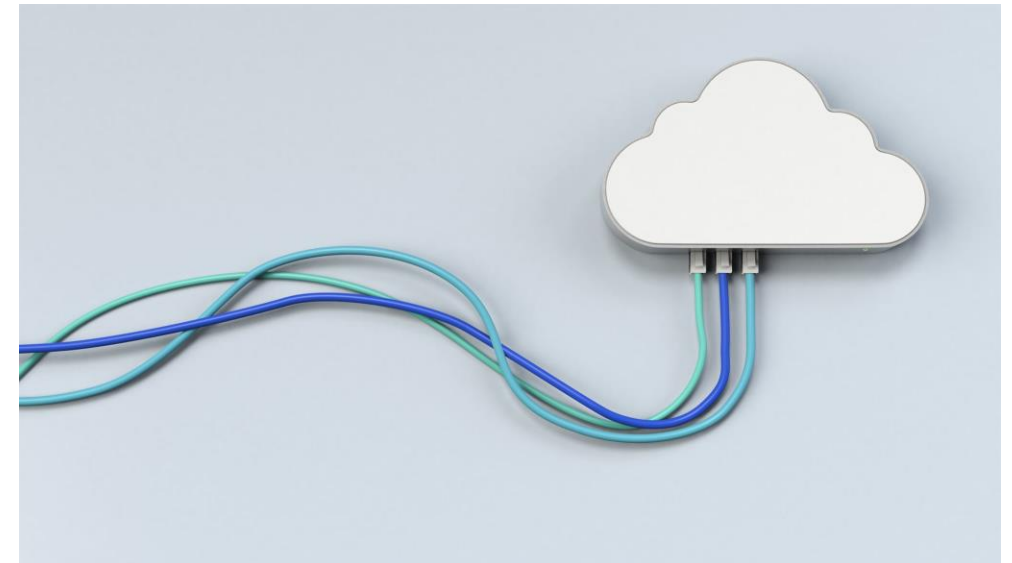
Course Structure

- Course Duration
 - 3 Months
- Schedule
 - Weekend Classes
 - 3 hours each weekend
- Eligibility
 - Beginners to Intermediate-Level Professionals
- Mode
 - Live Online Sessions
 - Hands-On Labs



Introduction to Cloud Computing and Azure Basics

- Key Topics Covered
 - Cloud Concepts: IaaS, PaaS, SaaS
 - Benefits of Cloud Adoption
 - Introduction to Microsoft Azure
 - Portal Navigation
 - Basic Management: Resource Groups, Cloud Shell, CLI
- Hands-On Labs
 - Setting up Azure Accounts
 - Exploring the Azure Portal
 - Basic Azure Management with Resource Groups

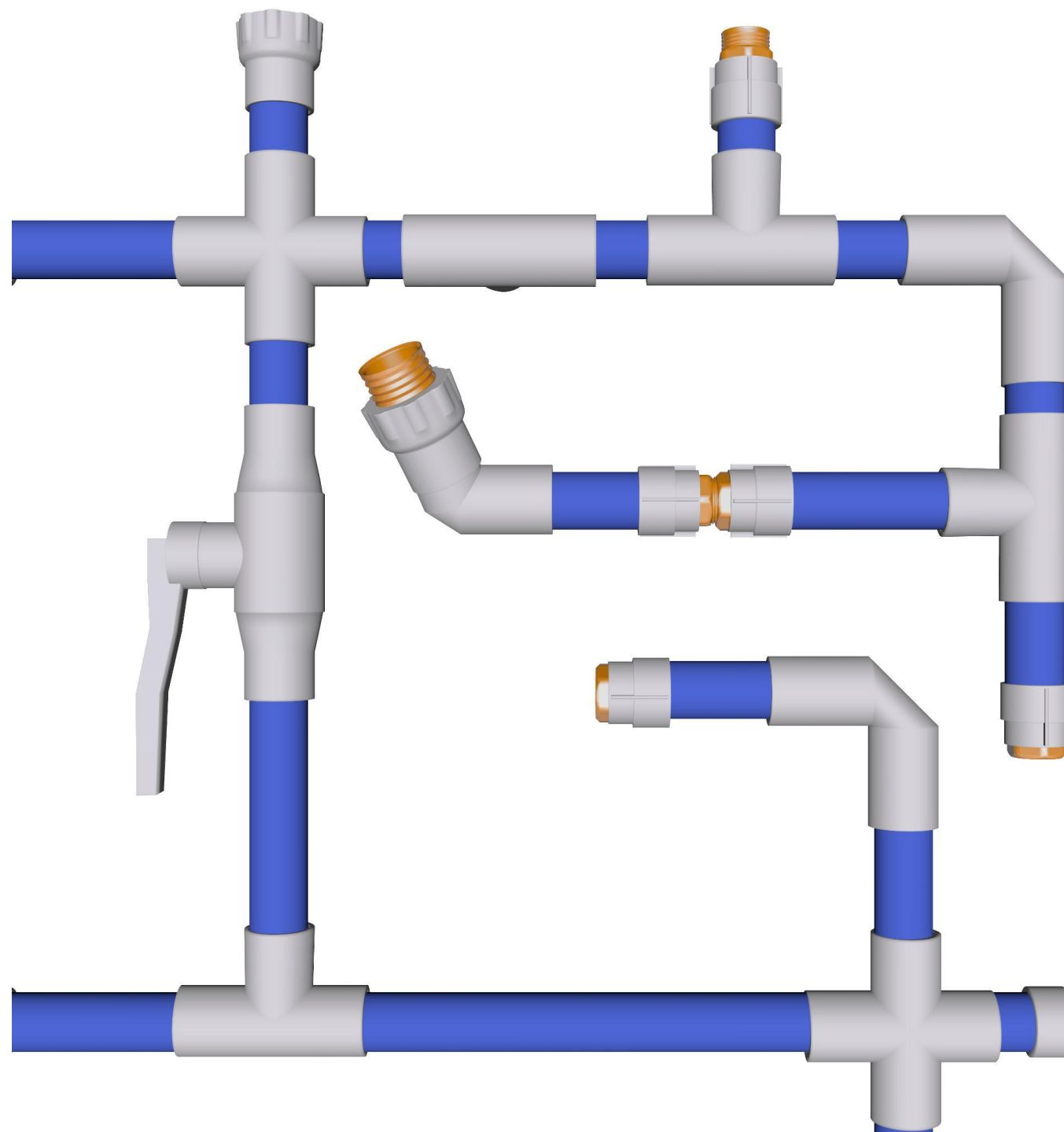


Core Azure Services and Architecture

- Key Topics
 - Azure Virtual Machines, VM Scale Sets, and Containers
 - Azure Storage (Blob, File, Queue, Table) and Networking
 - Introduction to Azure Architectural Principles
- Hands-On Labs
 - Deploying Virtual Machines and Containers
 - Implementing Storage Solutions and Configuring Networking

Azure Database and Analytics Services

- Key Topics
 - Azure SQL Database, Cosmos DB, Synapse Analytics
 - Azure Data Factory for Data Integration
 - Databricks for Analytics
- Hands-On Labs
 - Setting up and Querying Databases
 - Building ETL Pipelines with Data Factory
 - Analyzing Data with Databricks



Application Development and DevOps on Azure

- Key Topics
 - Azure App Service, Azure Functions, and Logic Apps
 - DevOps with Azure: CI/CD Pipelines and GitHub Actions
 - Application Monitoring with Azure Monitor and Insights
- Hands-On Labs
 - Deploying Web Apps and Serverless Functions
 - Setting Up CI/CD Pipelines and Application Monitoring

Artificial Intelligence and Machine Learning in Azure

- Key Topics
 - Introduction to AI and ML Concepts
 - Azure Machine Learning, Cognitive Services, and Bot Service
 - Exploring Azure OpenAI for Language Models
- Hands-On Labs
 - Building and Deploying ML Models
 - Implementing Cognitive Services and Creating Basic Chatbots

Security, Cost Management, and Final Project

- Key Topics
 - Azure Security Center, Sentinel, and Governance with Azure Policy
 - Cost Management and Optimization Strategies
 - Final Project: Design and Implement an Azure Solution
- Hands-On Labs
 - Security Implementation with Azure Security Center
 - Cost Optimization and Governance Setup
 - Comprehensive Final Project: Putting It All Together



Additional Course Components

- Weekly Q&A and Office Hours
 - Resolve doubts with expert tutors
- Assignments
 - Weekly tasks to reinforce learning
- Guest Lectures
 - Insights from Azure industry experts
- Certification Guidance
 - Resources and guidance on Azure certifications
- Community Access
 - Join a network of peers and industry professionals



Month 1: Foundations of Cloud Computing

- Month 1: Foundations of Cloud Computing
 - Weekend 1
 - Introduction to Cloud Computing
 - Azure Fundamentals
 - Weekend 2
 - Core Azure Services I
 - Core Azure Services II
 - Weekend 3
 - Azure Architecture Fundamentals
 - Security Fundamentals in Azure
 - Weekend 4
 - Networking in Depth

Month 2: Advanced Azure Services and Solutions

- Weekend 5
 - (1.5 hours): Database Services in Azure I
 - (1.5 hours): Database Services in Azure II
- Weekend 6
 - (1.5 hours): Big Data and Analytics Services I
 - (1.5 hours): Big Data and Analytics Services II
- Weekend 7
 - (1.5 hours): Application Services in Azure
 - (1.5 hours): Serverless Computing with Azure
- Weekend 8
 - (1.5 hours): DevOps Practices in Azure I
 - (1.5 hours): DevOps Practices in Azure II

Month 3: AI, Machine Learning, and Advanced Topics

- Weekend 9
 - AI and Cognitive Services in Azure I
 - AI and Cognitive Services in Azure II
- Weekend 10
 - Machine Learning on Azure I
 - Machine Learning on Azure II
- Weekend 11
 - Advanced Azure Topics I
 - Governance and Cost Management
- Weekend 12
 - Final Project Workshop
 - Course Wrap-up and Presentations

Enrollment Information

- Enroll Now
 - Visit standexdigital.tech
 - Contact +447918262629
- Email for Inquiries
 - techelevate@standexdigital.tech
- Secure Your Place Today
 - Start building skills for a future in Cloud Engineering, AI, and DevOps

