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SKILLS AND LAUNCH
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MS AZURE
CURRICULUM

NOVATEC

TRAINING & SERVICES

CONTACT US

+91 8010419361

507, 508, Zen Business Center,
Bhumkar Chowk, Wakad, Pune
411057

contact@novatec.co.in

www.novatec.co.in



Azure Fundamentals

Module-1: Basic Cloud Concepts

- Benefits and considerations of using cloud services
- Differences between IaaS, PaaS and SaaS
- Differences between Public, Private and Hybrid cloud models

Module-2: Core Azure Services

- Core Azure architectural components
- Core products available in Azure
- Solutions available on Azure
- Azure management tools

Module-3: Azure Security, Privacy, Compliance, and Trust

- Securing network connectivity in Azure
- Core Azure Identity services
- Security tools and features of Azure
- Azure governance methodologies
- Monitoring and reporting options in Azure
- Privacy, compliance and data protection standards in Azure



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Azure Fundamentals

Module-4: Azure Pricing, Service Level Agreements, and Lifecycles

- Azure subscriptions
- Planning and management of costs
- Azure Service Level Agreements (SLAs)
- Service lifecycle in Azure

The logo for Novatec is a yellow house-shaped graphic. Inside the house, the word "NOVATEC" is written in large, white, bold, uppercase letters.

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Azure Administrator

Module-1: Manage Azure identities and governance

- Manage Azure AD objects
- Manage role-based access control (RBAC)
- Manage subscriptions and governance

Module-2: Implement and manage storage

- Manage storage accounts
- Manage data in Azure Storage
- Configure Azure files and Azure blob storage

Module-3: Deploy and manage Azure compute resources

- Configure VMs for high availability and scalability
- Automate deployment and configuration of VMs
- Create and configure VMs
- Create and configure containers
- Create and configure Web Apps



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Azure Administrator

Module-4: Configure and manage virtual networking

- Implement and manage virtual networking
- Configure name resolution
- Secure access to virtual networks
- Configure load balancing
- Monitor and troubleshoot virtual networking
- Integrate an on-premises network with an Azure virtual network

Module-5: Monitor and back up Azure resources

- Monitor resources by using Azure Monitor
- Implement backup and recovery



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Azure Developer

Module-1: Develop Azure compute solutions

- Implement IaaS solutions
- Create Azure App Service Web Apps
- Implement Azure functions

Module-2: Develop for Azure storage

- Develop solutions that use Cosmos DB storage
- Develop solutions that use blob storage

Module-3: Implement Azure security

- Implement user authentication and authorization
- Implement secure cloud solutions

Module-4: Monitor, troubleshoot, and optimize Azure solutions

- Integrate caching and content delivery within solutions
- Instrument solutions to support monitoring and logging



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Azure Developer

Module-5: Connect to and consume Azure services and third-party services

- Develop an App Service Logic App
- Implement API Management
- Develop event-based solutions
- Develop message-based solutions



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Azure Architect Design

Module-1: Design Monitoring

- Design for cost optimization
- Design a solution for logging and monitoring

Module-2: Design Identity and Security

- Design authentication
- Design authorization
- Design governance
- Design security for applications

Module-3: Design Data Storage

- Design a solution for databases
- Design data integration
- Select an appropriate storage account



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Azure Architect Design

Module-4: Design Business Continuity

- Design a solution for backup and recovery
- Design for high availability

Module-5: Design Infrastructure

- Design a compute solution
- Design a network solution
- Design an application architecture
- Design migrations



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Azure DevOps Solution

Module-1: Develop an Instrumentation Strategy

- Design and implement logging
- Design and implement telemetry
- Integrate logging and monitoring solutions

Module-2: Develop a Site Reliability Engineering (SRE) strategy

- Develop an actionable alerting strategy
- Design a failure prediction strategy
- Design and implement a health check

Module-3: Develop a security and compliance plan

- Design an authentication and authorization strategy
- Design a sensitive information management strategy
- Develop security and compliance
- Design governance enforcement mechanisms



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Azure DevOps Solution

Module-4: Manage source control

- Develop a modern source control strategy
- Plan and implement branching strategies for the source code
- Configure repositories
- Integrate source control with tools

Module-5: Facilitate communication and collaboration

- Communicate deployment and release information with business stakeholders
- Generate DevOps process documentation
- Automate communication with team members



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Azure DevOps Solution

Module-6: Define and implement continuous integration

- Design build automation
- Design a package management strategy
- Design an application infrastructure management strategy
- Implement a build strategy
- Maintain build strategy
- Design a process for standardizing builds across organization

Module-7: Define and implement a continuous delivery and release management strategy

- Develop deployment scripts and templates
- Implement an orchestration automation solution
- Plan the deployment environment strategy



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