



SharpSkilled

Upskilling the AI Generation

Cloud Computing & DevOps

Job Assistance Bootcamp



Linux

DevOps





About Cloud Computing and Devops

Embark on a transformative journey with SharpSkilled's Cloud Computing & DevOps Program. Gain expertise in AWS, Azure, and DevOps tools through hands-on training. Our program ensures you're well-prepared for real-world challenges, offering the perfect blend of theory and practice. Advance your career with us today! Join now for success in cloud computing and DevOps.



Learning Format

Live Online



Live Classes

16 Weeks



100%

Job Assistance



Career Guide

By Experts



SharpSkilled

Upskilling the AI Generation

About us

SharpSkilled, established in 2022, pioneers comprehensive upskilling solutions in the IT sector. Focused on empowering the AI generation, it offers diverse courses tailored to industry demands. Leveraging cutting-edge tech and industry expertise, SharpSkilled provides practical, hands-on training and mentorship, preparing learners for real-world challenges. Aligned with the **Upskilling India** initiative, it fosters continuous learning and professional growth. Through strategic partnerships with top IT firms, SharpSkilled not only develops skills but also creates pathways to meaningful employment. Beyond a training institution, SharpSkilled serves as a catalyst for personal and professional advancement, shaping a future where individuals excel in IT.

Program Highlights



Industry-Relevant & Updated Syllabus

Learn the industry's latest tools, techniques & trends. Gain hands-on experience developing various apps.



360 Degree Knowledge Building

Develop practical skills through real-world projects and assignments



1:1 Dedicated Mentorship

Personalized learning experience from experienced industry professionals.



Multiple Career Opportunities

We don't just educate; we guide you towards your career goals with our dedicated placement pool.

Talk to our counsellor

- Curriculum Insights
- Post-Program Support
- PayAfter Placement
- Career Prospects Exploration

[Inquire Now](#)



Program Details

COURSE PREREQUISITE

Basic understanding of IT and software with foundational knowledge in networking is required

PROGRAM ELIGIBILITY

- ✓ **IT Professionals:** Ideal for IT administrators, system admins, network engineers looking to upgrade their skills.
- ✓ **Software Developers:** Beneficial for developers aiming to specialize in DevOps practices and cloud solutions.
- ✓ **Career Changers:** Open to professionals from different backgrounds seeking to transition into the IT and cloud domain.

KEY FEATURES

- ✓ Practical exercises, real-world projects, and lab sessions using tools like AWS, Azure, Kubernetes, Docker, and Jenkins.
- ✓ Dedicated Placement Cell | 100% Guaranteed Interview calls
- ✓ Globally Recognised **Certification from Microsoft**

JOB ROLES TO TARGET

Cloud Engineer
DevOps Engineer
Site Reliability Engineer (SRE)
System Administrator

Cloud Architect
Automation Engineer
Infrastructure Engineer
Cloud Security Specialist



Real time projects

"At SharpSkilled, we believe in learning by doing. That's why our programs feature real-time projects and capstone projects, providing hands-on experience that prepares you for the challenges of the IT industry. Get ready to apply your skills in practical scenarios and showcase your expertise with confidence. Join us and turn theory into tangible results!"

450+

Hiring
Partners



Trusted
Learners



Capstone
Project



1-1 Doubt Session



2 Career Service PRO



Get Job and Placement support

Unleash your career potential with unlimited job access, interview support, and profile review.

4 Mock Interviews with Industry Experts

Master the art of cloud computing, devops and stay ahead of the curve with mockups and industry insights



Resume Building Session

Craft a powerful resume showcasing your expertise in software development to stand out from the competition



1:1 LinkedIn Review Session

Get 1-on-1 sessions with experts for a better understanding of LinkedIn profile reviews and cover letter.



Dedicated Placement Cell

Receive unlimited interview calls from a diverse pool of interested employers/recruiters until you successfully secure a job

3 Industry Certification

World's leading certifications



SharpSkilled

Upskilling the AI Generation

ICourse Completion Certificate

Complete your training with the recognized certificate.



Microsoft Azure Certificate

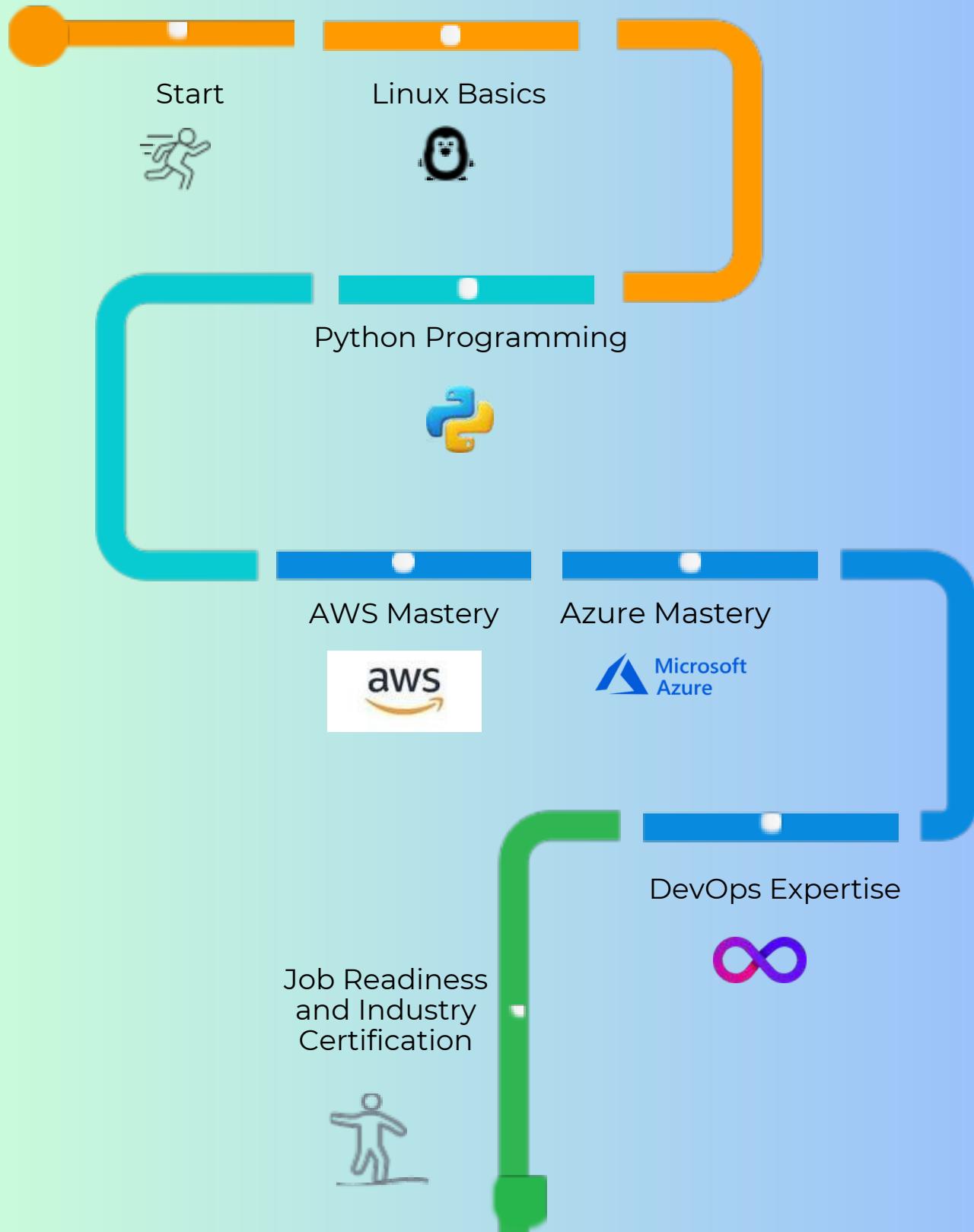
Achieve professional growth & increase earning potential with Microsoft Azure certification



IBM Capstone Project Certificate

Highlight your skills & boost your project portfolio with capstone project certificate

Route of Skills



Tools Covered



Azure
Security Center



Amazon EFS



CloudFormation



Amazon
EC2



Amazon ELB



Amazon
CloudWatch



AWS IAM



Others Vs SharpSkilled

Benefits

SharpSkilled

Others



Guaranteed Interview Calls



Industry capstone project certificate from IBM



Domain specialized programs for professionals



100% live interactive sessions with industry experts



On-demand video call with industry experts



Personalised Resume Review Session



Program Fee



Enrollment Fee

Rs. 6,000

**Pay After
Placement**

Program Fee
Rs. 36,000

Linux Fundamentals and Introduction 10 Hours

Linux Basics and System Administration

- Introduction to Linux Operating System
- Command Line Interface (CLI) Essentials
- User and Group Management
- Networking Basics in Linux

Practical exercises and assignments for mastering Linux commands

- Command Line Mastery: Exercises focusing on everyday CLI usage
- Script Writing: Basics of Shell Scripting for Automation
- System Administration Tasks: Setting up a Web Server, Creating Cron Jobs

Tools covered



LINUX





Python Programming Essentials

18 Hours

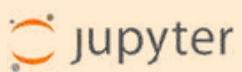
Introduction to Python and Environment Setup

- Basics of Python Programming Language
- Setting Up Python Development Environment
- IDE Setup and Introduction (PyCharm, Jupyter Notebook)

Python Programming Foundations

- Data Types, Variables, and Basic Operators
- Control Structures: If-Else Statements, Loops
- Functions: Definition, Arguments, Return Values

Tools covered



Data Handling and Structures

- Lists, Tuples, Dictionaries, and Sets
- String Manipulation and Regular Expressions
- File Operations: Reading and Writing Files

Real time project will be covered after Python completion .

AWS Cloud Mastery 35 Hours

AWS Administration Level

Introduction to AWS

- AWS Services Overview
- Setting Up AWS Accounts
- AWS Management Console

AWS Storage Services

- S3 (Simple Storage Service)
- EBS (Elastic Block Store)
- Glacier
- Storage Gateway
- Amazon FSx (Fully Managed File Storage)

Networking and Content Delivery

- VPC (Virtual Private Cloud)
- CloudFront
- Route 53
- API Gateway
- AWS Direct Connect

Monitoring and Management

- CloudWatch
- CloudTrail
- AWS Config
- AWS Trusted Advisor

AWS Compute Services

- EC2 (Elastic Compute Cloud)
- AWS Lambda
- Elastic Beanstalk
- Lightsail
- Amazon ECS
- EKS (Elastic Kubernetes Service)

AWS Database Services

- RDS (Relational Database Service)
- DynamoDB
- Redshift
- ElastiCache
- Amazon Aurora

Automation and Optimization

- AWS CLI (Command Line Interface)
- CloudFormation
- Systems Manager
- AWS Elastic Beanstalk for Deployment Automation



AWS Cloud Mastery

Transitioning to Solution Architect

Architecting on AWS

- Designing Systems (Availability, Cost-Efficiency, Fault-Tolerance, Scalability)
- Decoupling Mechanisms and Scalable Design
- Choosing Appropriate AWS Services

Advanced Networking

- VPC Design and Implementation
- Advanced Security and Networking Best Practices

Data Security

- Data Encryption Methods
- Compliance and Governance

High Availability and Business Continuity

- Disaster Recovery Strategies
- High Availability Approaches

Cost Optimization

- Cost-Effective Resource Utilization
- Monitoring and Optimization Techniques

Migration and Innovation

- Migration Strategies to AWS
- Leveraging AWS for Innovation

Designing for New Technologies

- IoT (Internet of Things) Solutions
- Machine Learning Implementations
- Serverless Architectures

Microsoft Azure Proficiency

50 Hours

Azure Administration Level

Introduction to Azure

- Overview of Azure Services
- Setting Up Azure Accounts
- Azure Portal and Azure CLI

Azure Storage Solutions

- Blob Storage
- Azure Files
- Queue Storage
- Disk Storage
- Azure Data Lake Storage for Big Data Analytics

Identity and Access Management

- Azure Active Directory
- Role-Based Access Control (RBAC)
- Multi-Factor Authentication
- Azure AD Connect

Security and Compliance

- Azure Security Center
- Key Vault
- Azure Policy
- Azure Blueprints

Azure Compute Services

- Azure Virtual Machines
- Azure Kubernetes Service (AKS)
- Azure Functions
- App Services
- Azure Container Instances for Container Deployments

Azure Networking

- Virtual Networks (VNet)
- Load Balancers
- VPN Gateway
- Azure DNS
- Azure ExpressRoute for Private Connectivity

Database Services

- Azure SQL Database
- Cosmos DB
- Azure Database for MySQL
- Azure Database for PostgreSQL
- Azure Synapse Analytics for Big Data and Analytics

Monitoring and Management

- Azure Monitor
- Azure Log Analytics
- Azure Automation
- Azure Backup and Site Recovery



Microsoft Azure Proficiency

Transitioning to Solution Architect

Architecting Solutions on Azure

- Designing Infrastructure Solutions
- Designing for Security and Identity
- Designing Data Platform Solutions
- Designing Business Continuity

Advanced Networking

- Network Architecture and Strategies
- Azure Application Gateway
- Network Security Groups

Data and Databases

- Advanced Database Management
- Big Data and Analytics Solutions
- Data Migration Strategies

Developing for the Cloud

- Azure DevOps
- CI/CD Pipelines
- Azure App Service Environments

Application Modernization

- Microservices and Containers
- Serverless Computing
- Hybrid Cloud Solutions

Cost Management and Optimization

- Microservices and Containers
- Serverless Computing
- Hybrid Cloud Solutions

DevOps Expertise

70 Hours

Mastering DevOps

DevOps Tools and Practices

Introduction to DevOps

- Evolution of DevOps and its significance in modern software development.
- Core principles of DevOps practices.

Infrastructure Setup

- Fundamentals of server configuration and management.
- Setting up and managing virtual environments for DevOps practices.

Version Control with Git

Basics of Git

- Introduction to version control systems.
- Fundamental Git commands and workflows.

Advanced Git Techniques

- Branching strategies for collaborative development.
- Conflict resolution and best practices for maintaining code integrity.

Containerization with Docker

Introduction to Containerization

- Concepts of containerization and its advantages.
- Docker installation and setup.

Docker in Practice

- Building, running, and managing Docker containers.
- Docker Compose for multi-container setups.



DevOps Expertise

Mastering DevOps

Configuration Management

Puppet for Configuration Management

- Basics of Puppet: Architecture, setup, and usage.
- Writing and applying Puppet manifests.

Ansible for Automated Configuration

- Ansible fundamentals: Playbooks, roles, and inventory.
- Automation of repetitive tasks using Ansible.

Continuous Integration and Continuous Delivery (CI/CD)

Jenkins for CI/CD

- Setting up Jenkins for automated build and deployment.
- Integrating Jenkins with various development tools.

Continuous Delivery and Deployment Strategies

- Automating the software release process.
- Best practices in maintaining a CI/CD pipeline.

Container Orchestration with Kubernetes

Kubernetes Fundamentals

- The architecture of Kubernetes, pods, and services.
- Deploying applications on Kubernetes clusters.

Advanced Kubernetes Management

- Scaling applications with Kubernetes.
- Kubernetes networking, storage, and security.



DevOps Expertise

Mastering DevOps

Monitoring and Logging with ELK Stack

Elasticsearch, Logstash, and Kibana (ELK)

- Setting up the ELK Stack for logging and monitoring.
- Creating dashboards and visualizations in Kibana.

Integrating Monitoring into DevOps Workflows

- Automated monitoring and alerting.
- Best practices for log management and analysis.

Infrastructure as Code (IaC) with Terraform

Introduction to IaC and Terraform

- Principles of IaC and its benefits.
- Installing and configuring Terraform.

Building Infrastructure with Terraform

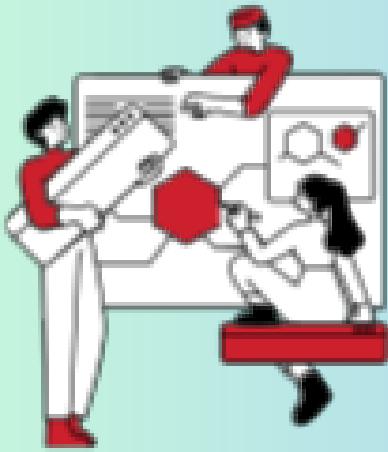
- Writing Terraform scripts for automated infrastructure deployment.
- Managing and scaling infrastructure with Terraform.

AWS Devops

- Code Commit
- Code Build
- Code Deploy
- Code Pipeline

Azure Devops

- Introduction to Microsoft Azure
- Introduction to DevOps
- Azure DevOps and Azure Repos
- Azure Artifacts and Azure Test Plans
- Azure Pipelines
- Azure Boards



PROJECTS

Mini Projects -

- Online Blood Bank System.
- Cloud-based Bus Pass System.
- Rural Banking Using Cloud Computing.

Capstone Projects -

- Server less Website on AWS.
- E-commerce Predictive Analytics.
- Movie Recommendation Engine Using AWS.