ROLASOFT PROFESSIONAL COMPUTER & IT COURSES VERSION 2.0 LATEST

Diploma in Certified Cloud Computing

Become a job-ready Cloud Computing in 6 months!

Benefits of Studying Diploma in Cloud Computing with RolaSoft

✅ **1. Industry-Relevant Curriculum**

Stay ahead with a syllabus designed by industry experts, focused on real-world applications of cloud computing.

✅ **2. Hands-On Training**

Learn by doing — build real-time projects, and gain practical experience.

✅ **3. Experienced Instructors**

Gain insights from certified professionals and senior software engineers with years of teaching and industry experience.

✅ **4. Placement Assistance**

Access job support services including resume building, mock interviews, and direct placement opportunities with partner companies.

✅ **5. Flexible Learning Modes**

Choose between: **Online**, **Offline (at our center)**, or **Hybrid Classes**

Benefits of Studying Diploma in Cloud Computing with RolaSoft

✅ **6. Mini & Major Projects**

Work on individual and group projects to strengthen your portfolio and impress future employers.

✅ **7. Certification Upon Completion**

Earn a **Diploma Certificate** from **RolaSoft Technologies**, recognized by IT recruiters and employers.

✅ **8. Small Batch Size**

Personalized attention and better interaction in small groups for an enhanced learning experience.

✅ **9. Affordable Fees & Installment Plans**

Top-tier training at a reasonable cost, with flexible payment options.

✅ **10. Career-Oriented Skills You'll Gain at RolaSoft Technologies**

RolaSoft ensures you're job-ready with the right tech stack and practical knowledge.

Diploma in Cloud Computing Course Details

- ✅ **Duration**
  Six (6) Months

- ✅ **Schedule**
  Weekdays / Weekends

- ✅ **Learning Modes**
  Online, Offline (at our center), or Hybrid Classes

- ✅ **Start Date**
  New batches start every month — enroll now!

- ✅ **Eligibility**
  No prior experience required

Cloud Computing Prerequisites

✅ Basic understanding of networking and system administration

✅ Basic understanding of Networking, Operating Systems, and Programming (Python, Bash, or PowerShell recommended but not mandatory).

✅ Familiarity with Linux and basic scripting (helpful but not required)

✅ No prior cloud experience is needed

Diploma in Cloud Computing – Program Details

Program Overview

The **Cloud Computing** course at ***Rolasoft Technologies*** is a comprehensive 6-month program aimed at providing students with a deep understanding of the cloud computing paradigm, including the key concepts, tools, and platforms used in modern cloud environments. Over the course, students will explore the benefits and challenges of cloud adoption, learn about various cloud models, and get hands-on experience with popular cloud providers like **Amazon Web Services (AWS)**, **Microsoft Azure**, and **Google Cloud Platform (GCP)**.

This course will cover a wide range of topics, from cloud service models such as **IaaS**, **PaaS**, and **SaaS**, to the deployment and management of cloud infrastructures. Students will learn to design and deploy scalable, secure, and cost-effective cloud solutions and will gain expertise in cloud security, automation, and DevOps integration. The course is designed to cater to both beginners and professionals seeking to enhance their cloud computing skills for various IT and business applications.

By the end of the course, students will have the skills necessary to work as cloud engineers, cloud architects, or cloud consultants, and be able to design, implement, and manage cloud infrastructure solutions.

Diploma in Cloud Computing Course Curriculum

Month 1: Introduction to Cloud Computing & Cloud Service Models

✅ **What is Cloud Computing?**

(Overview of cloud computing concepts and history, Differences between traditional computing and cloud computing, Benefits and challenges of adopting cloud computing)

✅ **Cloud Service Models**

(Introduction to the Service Models: IaaS (Infrastructure as a Service), PaaS (Platform as a Service), and SaaS (Software as a Service), How each model differs and their real-world applications)

✅ **Cloud Deployment Models**

(Public, Private, and Hybrid Cloud models, Pros and cons of each deployment model, Selecting the right model based on business requirements)

✅ **Cloud Computing Platforms Overview**

(Introduction to major cloud platforms: AWS, Microsoft Azure, Google Cloud Platform (GCP), Overview of cloud service providers and their offerings)

✅ **Hands-On:** Set up an account and explore the management console of a cloud provider (AWS/Azure/GCP)

Diploma in Cloud Computing Course Curriculum

Month 2: Introduction to Amazon Web Services (AWS)

✅ **Overview of AWS**

(Introduction to the AWS cloud ecosystem, Key AWS services: EC2, S3, RDS, Lambda, VPC, and IAM, Setting up an AWS account and navigating the AWS Management Console)

✅ **EC2 (Elastic Compute Cloud)**

(Launching, configuring, and managing EC2 instances, Choosing instance types and storage options, Managing security groups and key pairs)

✅ **Amazon S3 (Simple Storage Service)**

(Storing and managing objects in S3, Configuring bucket permissions and versioning, Using S3 for static website hosting)

✅ **Hands-On:** Launch an EC2 instance and store files in S3

Diploma in Cloud Computing Course Curriculum

Month 3: Microsoft Azure Fundamentals

✅ **Overview of Azure**
(Introduction to Microsoft Azure and its cloud offerings, Overview of Azure services: Virtual Machines, Blob Storage, Azure Functions, and Azure Active Directory)

✅ **Azure Virtual Machines**
(Deploying virtual machines (VMs) on Azure, Managing Azure VMs and configuring networking and storage)

✅ **Azure Storage Solutions**
(Overview of Azure Blob, File, Queue, and Disk storage, Configuring storage accounts and managing data)

✅ **Azure Networking**
(Introduction to Azure Virtual Networks, Subnets, and Network Security Groups, Connecting resources using Virtual Network Peering and VPNs)

✅ **Hands-On:** Create and deploy a virtual machine on Azure

Diploma in Cloud Computing Course Curriculum

Month 4: Google Cloud Platform (GCP) & Cloud Networking

✅ **Overview of Google Cloud Platform**
(Introduction to GCP and its major services: Compute Engine, Cloud Storage, Cloud Functions, BigQuery, and Kubernetes Engine, GCP console and project structure)

✅ **Compute Engine**
(Launching and managing virtual machines in GCP, Working with GCP's firewall rules and load balancing)

✅ **GCP Storage Solutions**
(Configuring Cloud Storage and using persistent disks, Access control and security in GCP Storage)

✅ **Cloud Networking**
(Designing and configuring VPCs in the cloud, Cloud load balancing and DNS management)

✅ **Hands-On:** Create a VM instance on GCP and store data in Cloud Storage

Diploma in Cloud Computing Course Curriculum

Month 5: Cloud Security, Automation & DevOps in the Cloud

✅ **Cloud Security**
(Best practices for securing cloud resources, Identity and Access Management (IAM) in AWS, Azure, and GCP, Securing data with encryption and key management)

✅ **Automation in the Cloud**
(Introduction to Infrastructure as Code (IaC) with Terraform, Automating cloud deployments and managing cloud resources using CloudFormation (AWS) and Azure Resource Manager, Automating cloud resource provisioning with Ansible and Chef)

✅ **Cloud-Native DevOps**
(Introduction to DevOps practices in the cloud, CI/CD pipelines in AWS (CodePipeline, CodeBuild), Managing infrastructure and deployments with Kubernetes)

✅ **Hands-On:** Set up a simple CI/CD pipeline using AWS or Azure tools

Diploma in Cloud Computing Course Curriculum

Month 6: Advanced Cloud Solutions, Cost Optimization, and Career Preparation

✅ **Advanced Cloud Solutions**
(Serverless computing and using AWS Lambda, Azure Functions, and Google Cloud Functions, Introduction to containers and Kubernetes for cloud-native application development, Cloud-native architecture patterns and microservices in the cloud)

✅ **Cost Management & Optimization**
(Understanding cloud billing and pricing models, Cost estimation tools in AWS (AWS Pricing Calculator), Azure (Azure Pricing Calculator), and GCP, Implementing cost optimization best practices in the cloud)

✅ **Hands-On:** Final Project - Design and deploy a cloud-native solution incorporating compute, storage, and security features

Tools & Technologies Used

Tools & Technologies Used for **Certified Cloud Computing** Course are:

✅ **Cloud Platforms:** Amazon Web Services (AWS), Microsoft Azure, Google Cloud Platform (GCP)

✅ **Automation Tools:** Terraform, CloudFormation, Ansible, Chef

✅ **CI/CD Tools:** Jenkins, AWS CodePipeline, Azure DevOps, GCP Cloud Build

✅ **Containers & Orchestration:** Docker, Kubernetes

✅ **Security:** IAM, Encryption, Key Management (KMS, Azure Key Vault)

✅ **Serverless:** AWS Lambda, Azure Functions, Google Cloud Functions

Final Capstone Project (End of 6 Months)

Students will complete an **industry-level project** in **Certified Cloud Computing** :

✅ Design and deploy a cloud-native solution incorporating compute, storage, and security features (Capstone Project)

Cloud Computing Learning Outcomes

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

- ✅ Understand and apply cloud computing concepts, service models, and deployment models
- ✅ Deploy and manage cloud infrastructure and services using **AWS**, **Azure**, and **GCP**
- ✅ Implement security best practices in the cloud, including IAM, encryption, and secure data storage
- ✅ Automate cloud infrastructure provisioning and deployment using **Terraform**, **CloudFormation**, and **Ansible**
- ✅ Design and deploy **serverless applications** and **cloud-native architectures**
- ✅ Optimize cloud usage for cost and efficiency
- ✅ Prepare for cloud-related roles such as **Cloud Engineer**, **Cloud Architect**, or **Cloud Consultant**

Certification Obtain

After completion of the program, the student will be awarded with a certificate:

Diploma in Certified Cloud Computing

The program also prepares students for industry certifications such as:

✅ CompTIA Cloud+
✅ Certified Cloud Security Professional (CCSP) – by $(ISC)^2$
✅ AWS (Amazon Web Services) Certifications (AWS Certified Cloud Practitioner – Beginner, AWS Certified Solutions Architect (Associate/Professional), AWS Certified DevOps Engineer, AWS Certified Security – Specialty)
✅ Microsoft Azure Certifications (Microsoft Certified: Azure Fundamentals, Azure Administrator Associate, Azure Solutions Architect Expert, Azure DevOps Engineer Expert)
✅ Google Cloud (GCP) Certifications (Cloud Digital Leader – Foundational, Associate Cloud Engineer, Professional Cloud Architect, Professional Data Engineer

Cloud Computing Career Opportunities

- ☑ Cloud Engineer
- ☑ Cloud Architect
- ☑ DevOps Engineer (Cloud Focused)
- ☑ Cloud Security Engineer
- ☑ Cloud Consultant
- ☑ Cloud Developer

Who Should Take This **Cloud Computing ?**

Who Should Take This **Certified Cloud Computing ?**

- ✅ **Software developers** looking to understand cloud technologies for scalable applications
- ✅ **System administrators** and IT professionals transitioning to cloud management
- ✅ **Business owners** interested in migrating to or optimizing their use of the cloud
- ✅ **Students** or individuals looking to start a career in cloud computing
- ✅ **Technology enthusiasts** eager to learn about cloud architecture, deployment, and security
- ✅ DevOps engineers and security professionals
- ✅ Developers looking to build and deploy cloud-based applications

Rolasoft Technologies Services

Rolasoft Technologies – Services Offered

✅ **SOFTWARE DEVELOPMENT COMPANY**
(MOBILE APPLICATION, WEB APPLICATION, DESKTOP APPLICATION, CUSTOMIZED APPLICATION, E-COMMERCE WEBSITE)

✅ **PROFESSIONAL COMPUTER AND IT EDUCATION**
(TOP-UP PROGRAMS, DIPLOMA PROGRAMS, CERTIFICATE PROGRAMS, TECH @ SCHOOL, CORPORATE PROGRAMS, SIWES PROGRAMS, CUSTOMIZED PROGRAMS)

✅ **DIGITAL ADVERTISING AND BUSINESS BRANDING**
(SOCIAL MEDIA MARKETING, EMAIL MARKETING, CONTENT MARKETING, WEBSITE SEO, BRANDED CLOTHING, STICKERS AND TAG, CUSTOM BRANDING, AND MANY MORE)

✅ **INTERNATIONAL UNIVERSITY ADMISSION PROCESSING**
(AMERICA, UK, CANADA, EUROPE, AFRICA, AND MANY MORE)

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Enroll Today & Start Your Cloud Computing Journey!

Shape your future with Cloud Computing.