



# Cloud Computing Training Curriculum

## STRUCTURE



## R Programming Training Curriculum

*“Become a Cloud Computing expert by joining our comprehensive Training Program at Croma Campus under best industry experts”*

### **About Croma Campus:**

Croma Campus Training & Development Private Limited is an education platform since 2010 providing rigorous industry-relevant programs designed and delivered in collaboration with world-class faculty and industry.

- Hands-On Live Projects
- Simulation Test Papers
- Industry Cases Studies
- 61,640+ Satisfied Learners
- 140+ Training Courses
- 100% Certification Passing Rate
- Live Instructor Classroom / Online Training
- 100% Placement Assistance

### **Course Objectives:**

When you choose a leading Cloud Computing Training Institute, you can prepare yourself for various cloud certifications and get hired by leading industries across the world right away. And if you are looking to start your career, you need to understand the objectives of our course:

- Learn the most popular tool for Cloud Computing
- Start with the basics, to advance Cloud Computing
- Our training will make you a certified professional who will be recognized worldwide.
- We help you to become a part of the growing community in the cloud computing space.
- You will get an opportunity to understand cloud computing fundamentals.
- Prepare yourself for the Cloud Computing certification exam and clear your certification exam in the first attempt mostly.
- Add an attractive credential in your resume that is really appreciated by Companies.
- Boost your social media profiles especially LinkedIn by adding this certification and become one of the top persons to be chosen by industries.

### **Course Description:**

This course is suggested for all those novices and specialists who are keen on working in Cloud Computing industry. It is suitable for all IT professionals like Big data analytics, Business analytics, scientific research, statistical reporting, Econometrics, social science, business intelligence, and business development. Researchers who perform data analysis with higher dimensional graphs. Students who need R for their courses.

Prerequisite: It is not necessary to have any prior knowledge of Cloud Computing.

## Croma Campus Training Program Deliverables:

- **Session Recordings** - Original Class Room Voice & Video Recording
- **Training Material** - Soft Copy Handbooks
- **Assignments** | Multiple Hands-on Exercises
- **Test Papers** - We provide **Practice Test** as part of our course to help you prepare for the actual certification exam.
- **Live Case Studies**
- **Live Projects** - Hands-on exercises and Project work. You will work on real time industry-oriented projects and assignments for each module to practice.
- **Key focus on Hands-on exercises and Project work.** You will work on real time industry-oriented projects.
- Faculty with more than **10+ Years of Experience** in the Industry.
- **Technical Resume Designing & Job Assistance:** With more than 100+ Clients across the Globe and we help learners to get a good job in their respective field. We also help learners with resume preparation.
- **Interview Q&A**
- **About Croma Campus Training Certificate:** Croma Campus will provide you with an industry-recognized (Certified by **ISO 9001:2015 & E-Cell IIT Jodhpur**) course completion certificate which has lifelong validity.
- **How I Unlock my Croma Campus Certificate:** Attend Complete Batch & Submit at least One Completed Project.

## Cloud Computing Course Content:

### Module 1: Basics of Cloud Computing

- A Short history
- Client Server Computing Concepts
- Challenges with Distributed Computing
- Introduction to Cloud Computing
- Why Cloud Computing?
- Benefits of Cloud Computing

### Module 2: AWS

- Introduction to Cloud Computing & AWS
- Elastic Compute and Storage Volumes
- Load Balancing, Autoscaling and DNS
- Virtual Private Cloud
- Storage - Simple Storage Service (S3)
- Databases and In-Memory DataStores
- Management and Application Services
- Access Management and Monitoring Services
- Automation and Configuration management
- AWS Migration
- AWS Architect Interview Questions

### **Module 3: Microsoft Azure**

- Introduction to Microsoft Azure
- Introduction to ARM & Azure Storage
- Introduction to Azure storage
- Azure Virtual Machines
- Azure App and Container services
- Azure Networking - I
- Azure Networking - II
- Authentication and Authorization in Azure using RBAC
- Microsoft Azure Active Directory
- Azure Monitoring

### **Module 4: DevOps**

- Infrastructure Setup
- Introduction to DevOps
- Version Control with Git
- Containerization Using Docker - I
- Configuration Management using Puppet
- Ansible
- Continuous Testing using Selenium
- Continuous Integration with Jenkins
- Introduction to Kubernetes Part 1
- Introduction to Kubernetes Part 2
- Continuous Monitoring using ELK
- Terraform Modules & Workspaces

### **Module 5: Python**

- Python Environment Setup and Essentials
- Python language Basic Constructs
- OOP concepts in Python
- Database connection
- NumPy for mathematical computing
- SciPy for scientific computing
- Matplotlib for data visualization
- Pandas for data analysis and machine learning
- Exception Handling
- Multi Threading & Race Condition
- Packages and Functions
- Web scraping with Python

### **Module 6: Google Cloud**

- Introduction to Google Cloud
- Google Cloud Services
- Google Computing Services

- Google Storage Services
- Google Cloud APIs
- Google Networking Services
- IAM & Security Services
- Migrating to Google Cloud

## **Module 7: Splunk Administration**

- Overview of Splunk
- Splunk Installation
- Splunk Installation in Linux
- Distributed Management Console
- Introduction to Splunk App
- Splunk Indexes and Users
- Splunk Configuration Files
- Splunk Deployment Management
- Splunk Indexes
- User Roles and Authentication
- Splunk Administration Environment
- Basic Production Environment
- Splunk Search Engine
- Various Splunk Input Methods
- Splunk User and Index Management
- Machine Data Parsing
- Search Scaling and Monitoring
- Splunk Cluster Implementation

## **Module 8: Splunk Developer**

- Splunk Development Concepts
- Basic Searching
- Using Fields in Searches
- Saving and Scheduling Searches
- Creating Alerts
- Scheduled Reports
- Tags and Event Types
- Creating and Using Macros
- Workflow
- Splunk Search Commands
- Transforming Commands
- Reporting Commands
- Mapping and Single Value Commands
- Splunk Reports and Visualizations
- Analyzing, Calculating and Formatting Results
- Correlating Events
- Enriching Data with Lookups
- Creating Reports and Dashboards
- Getting Started with Parsing

- Using Pivot
- Common Information Model (CIM) Add-On

## **Module 9: Linux**

- Introduction to Linux
- File Management
- Files and Processes
- Introduction to Shell Scripting
- Conditional, Looping statements and Functions
- Text Processing
- Scheduling Tasks
- Advanced Shell Scripting
- Database Connectivity
- Linux Networking

## **Module 10: Microsoft Azure 303**

- Introduction to Microsoft Azure
- Introduction to ARM & Azure Storage
- Introduction to Azure storage
- Azure Virtual Machines
- Azure App and Container Services
- Azure Networking
- Azure Networking - II
- Authentication and Authorization in Azure using RBAC
- Microsoft Azure Active Directory
- Azure Monitoring
- Multi Factor Authentication (MFA)
- Migration in Azure
- Azure Data Platform - I
- Azure Data Platform - II

## **Module 11: Agile Training**

- Introducing Agile Principles
- Defining the Agile Framework
- Agile Ceremonies and Artifacts
- Refining the Product Backlog
- Estimating and Prioritizing Product Backlog Items
- Agile Responsibilities to the Team