

Chef Configuration Design Training

COURSE CONTENT

GET IN TOUCH



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About Multisoft

Train yourself with the best and develop valuable in-demand skills with Multisoft Systems. A leading certification training provider, Multisoft collaborates with top technologies to bring world-class one-on-one and certification trainings. With the goal to empower professionals and business across the globe, we offer more than 1500 training courses, which are delivered by Multisoft's global subject matter experts. We offer tailored corporate training; project Based Training, comprehensive learning solution with lifetime e-learning access, after training support and globally recognized training certificates.

About Course

Chef Configuration Design Training by Multisoft Systems is designed to help IT professionals master infrastructure automation and modern configuration management practices. This comprehensive program focuses on building scalable, secure, and efficient IT environments using Chef, one of the leading DevOps automation tools. Participants will learn how to design Chef architecture, create and manage cookbooks and recipes, implement role-based configurations, and automate deployment processes across diverse environments.

Module 1: Introduction to Configuration Management & DevOps

- ✓ Evolution of IT Infrastructure Management
- ✓ Introduction to DevOps Practices
- ✓ Infrastructure as Code (IaC) Concepts
- ✓ Overview of Chef
- ✓ Chef vs Other Configuration Management Tools

Module 2: Chef Architecture & Installation

- ✓ Chef Server, Workstation, and Nodes
- ✓ Client-Server Model
- ✓ Knife Tool Overview
- ✓ Installing and Configuring Chef Workstation
- ✓ Bootstrapping Nodes
- ✓ Setting up Chef Development Environment

Module 3: Working with Cookbooks and Recipes

- ✓ Cookbook Structure
- ✓ Writing Recipes
- ✓ Understanding Resources and Providers
- ✓ Managing Packages, Services, and Files
- ✓ Templates and Attributes
- ✓ Creating Custom Cookbooks

Module 4: Nodes, Roles, and Environments

- ✓ Node Objects and Attributes
- ✓ Policy-Based Configuration
- ✓ Creating and Managing Roles
- ✓ Environment Segmentation (Dev, QA, Production)

- ✓ Managing Data with Data Bags

Module 5: Advanced Chef Concepts

- ✓ Custom Resources Development
- ✓ Chef Search
- ✓ Chef Policyfiles
- ✓ Dependency Management
- ✓ Version Control with Git
- ✓ Testing Cookbooks with Test Kitchen

Module 6: Automation & CI/CD Integration

- ✓ Continuous Integration Concepts
- ✓ Integrating Chef with CI/CD Pipelines
- ✓ Automating Cloud Infrastructure
- ✓ Compliance and Security Automation
- ✓ Infrastructure Monitoring and Reporting

Module 7: Troubleshooting & Best Practices

- ✓ Debugging Chef Runs
- ✓ Logging and Error Handling
- ✓ Managing Configuration Drift
- ✓ Security Best Practices
- ✓ Performance Optimization

Module 8: Real-Time Projects & Case Studies

- ✓ Designing Scalable Infrastructure
- ✓ Automating Multi-Tier Applications
- ✓ Enterprise Deployment Scenario
- ✓ Capstone Project & Practical Assessment