

Red Hat Ansible Automation Platform Boot Camp

Course Duration: 40 Hours

Course Code: DO710

1. Course Overview

The **Red Hat Ansible Automation Platform Boot Camp (DO710)** is an intensive, fast-paced training program designed to equip IT professionals with the skills to **develop, manage, and scale enterprise automation**. This boot camp consolidates key topics from foundational and advanced Ansible courses, enabling participants to quickly adopt automation practices and apply them across **infrastructure, applications, networks, and cloud platforms**.

Through hands-on labs and real-world scenarios, learners will gain the expertise to **build automation playbooks, manage inventories, implement workflows, and scale automation** with Red Hat Ansible Automation Platform.

2. What You'll Learn?

By the end of this boot camp, participants will be able to:

- Understand **Ansible Automation Platform architecture**.
- Write and execute **Ansible playbooks** for system administration and application management.
- Create and manage **inventories and roles**.
- Automate **network, cloud, and enterprise infrastructure**.

- Manage automation at scale using **automation controller (AWX/Tower)**.
- Integrate **automation into DevOps pipelines**.
- Apply **security, compliance, and best practices** in automation.

3. Target Audience

This course is ideal for:

- **System administrators, IT operations staff, and DevOps engineers.**
- **Automation architects and consultants** responsible for enterprise automation strategies.
- **Developers** looking to integrate automation in CI/CD pipelines.

4. Pre-Requisites

- Basic knowledge of Linux system administration.
- Familiarity with **YAML and command-line tools** is recommended.
- Prior exposure to IT automation concepts is helpful but not mandatory.

5. Course Content

Module 1: Introduction to Red Hat Ansible Automation Platform

- Architecture and key components
- Automation controller and execution environments

Module 2: Writing Ansible Playbooks

- YAML basics and playbook structure
- Modules, tasks, handlers, and variables

Module 3: Managing Inventories and Roles

- Static and dynamic inventories
- Creating and reusing Ansible roles

Module 4: Automating System Administration

- Package, service, and user management
- Configuration automation for Linux systems

Module 5: Network and Cloud Automation

- Automating switches, routers, and firewalls
- Automating workloads on AWS, Azure, and other clouds

Module 6: Managing Automation at Scale

- Job templates and workflows
- Access control and RBAC with automation controller

Module 7: CI/CD and DevOps Integration

- Integrating automation with GitOps and pipelines
- Automating application deployments

Module 8: Securing and Optimizing Automation

- Secrets management and Ansible Vault
- Compliance and policy-driven automation

Module 9: Advanced Topics and Troubleshooting

- Error handling in playbooks
- Debugging and optimizing performance