# Multicluster Management with Red Hat Advanced Cluster Management for Kubernetes (DO432)

**ID** DO432 **Price** CHF 2,805.—(excl. VAT) **Duration** 3 days

## Who should attend

- **IT Operations** personnel who are responsible for managing the lifecycle and monitoring the usage of multiple clusters.
- **DevOps and Site Reliability Engineers** who are responsible for monitoring the health of clusters and Kubernetes deployments and for maximizing their uptime. These individuals also automate the provisioning or deprovisioning of clusters and the workload placement based on capacity and policy.
- **Security Operations** personnel who are responsible for ensuring that Kubernetes deployments comply with regulatory and organizational standards. These individuals create security policies across diverse environments and ensure enforcement

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## Prerequisites

Completing Red Hat OpenShift Administration II: Configuring a Production Cluster (DO280) and Red Hat Certified System Administrator in OpenShift Exam (EX280) are strongly encouraged, or possessing equivalent Kubernetes and OpenShift administration skills.

The following optional courses are recommended:

- Red Hat OpenShift Administration III: Scaling Kubernetes Deployments in the Enterprise (DO380) is a course on how to configure and manage OpenShift clusters at scale to address increasing and complex demands from applications and to ensure reliability, performance, and availability.

## Course Objectives

### Impact on the Organization

Multicluster Management with Red Hat Advanced Cluster Management for Kubernetes supports IT Operations and Development teams whose organizations are expanding and accelerating their container adoption journeys. The course enables organizations to securely and consistently apply governance, security, and application placement policies across multiple Kubernetes clusters. Organizations will benefit through increased automation of cluster, application, and virtual machine lifecycles at scale, all from a unified point of control.

### Impact on the Individual

Multicluster Management with Red Hat Advanced Cluster Management for Kubernetes teaches the advanced skills to control multiple OpenShift clusters. Students will learn how to use GitOps practices for a multicluster environment, how to assess cluster compliance based on industry-standard benchmarks and get remediation guidance, and how to apply their own security policies for workloads that are hosted on multicloud or hybrid cloud environments to meet internal standards for software engineering, secure engineering, resilience, security, and regulatory compliance.

## Course Content

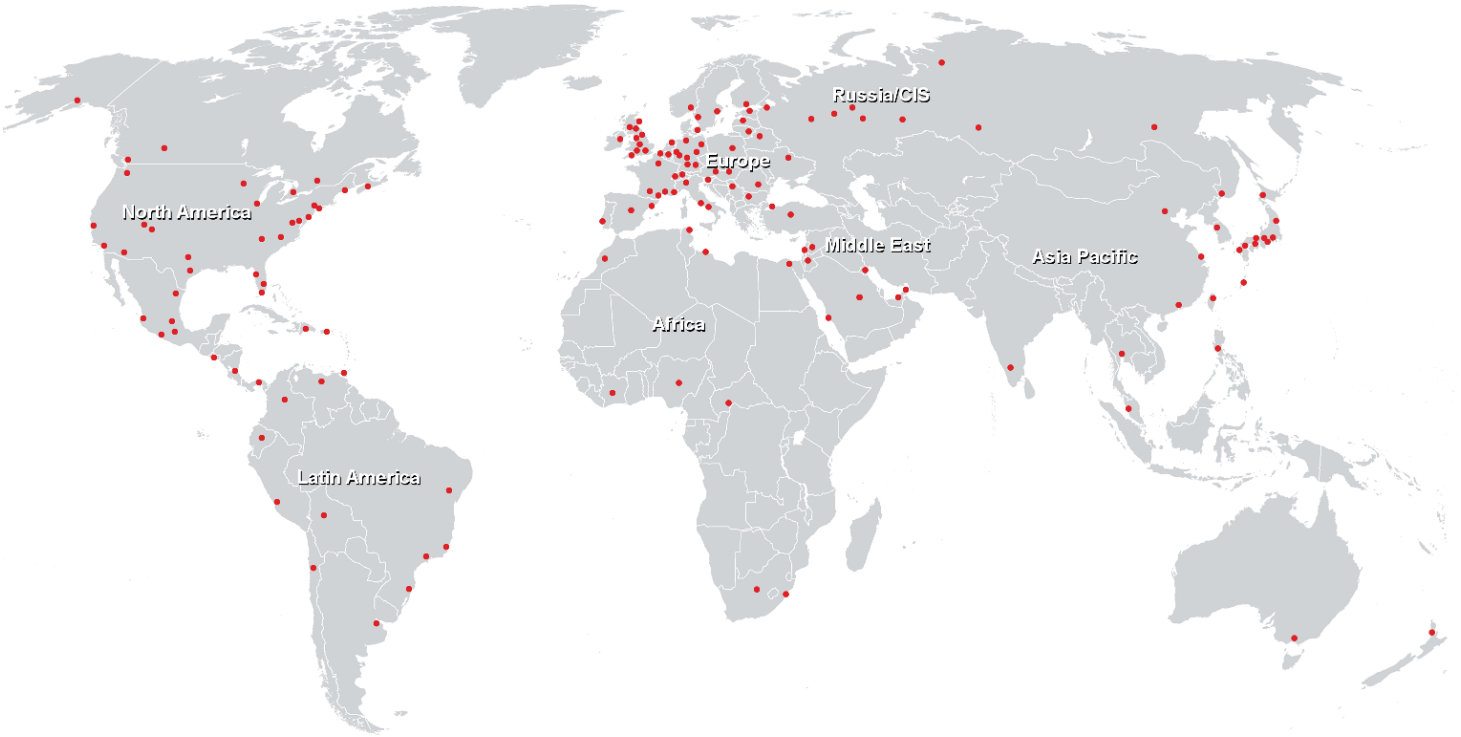
Multicluster Management with Red Hat Advanced Cluster Management for Kubernetes (RHACM) teaches the required skills to manage a fleet of containerized applications and Kubernetes clusters, by automating compliance with security, governance, and other organization policies, and by implementing GitOps practices.

### Course Content Summary

- Describe and implement the RHACM architecture and its components, and follow recommended practices for its installation.
- Import and manage a cluster by using the RHACM web console, configure user access to clusters, and troubleshoot common import issues.

- Deploy and manage policies in a multicluster environment by using RHACM governance.
- Monitor a fleet of managed clusters and troubleshoot performance and availability issues by using RHACM observability components.
- Deploy and manage applications in a multicluster environment by using RHACM and GitOps.
- Deploy and manage virtual machines in a multicluster environment by using RHACM and GitOps.

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**Fast Lane Institute for Knowledge Transfer (Switzerland) AG**

Husacherstrasse 3
CH-8304 Wallisellen
Tel. +41 44 832 50 80

**info@flane.ch, https://www.flane.ch**