OpenShift Essentials Bootcamp Training Course: Build, Deploy & Operate

16 - 20 Nov 2026
Tokyo

AGILE LEADERS
Training Center

AGILE LEADERS
Training Center

OpenShift Essentials Bootcamp Training Course: Build, Deploy & Operate

Ref.: 78_79035 **Date:** 16 - 20 Nov 2026 **Location:** Tokyo **Fees:** 10000 **Euro**

Course Overview:

"OpenShift Essentials Bootcamp: Build, Deploy & Operate" is a hands-on corporate training course designed to equip developers, DevOps engineers, and IT professionals with the foundational skills required to succeed with Red Hat OpenShift. This intensive workshop covers the essentials of OpenShift containers, developer workflows, and CI/CD practices. Participants will learn how to build and deploy applications using both the OpenShift Web Console and CLI tools, understand the architectural differences between OpenShift and Kubernetes, automate workflows with OpenShift Pipelines, and monitor application health. This course emphasizes practical knowledge through guided exercises and real-world scenarios, making it ideal for teams seeking to master OpenShift fundamentals for modern cloud-native development.

Target Audience:

- Software Developers
- DevOps Engineers
- Cloud Engineers
- Platform Engineers
- System Administrators
- Technical Team Leads

Targeted Organizational Departments:

- IT Operations
- Application Development
- Cloud Infrastructure
- DevOps & Automation
- Digital Transformation Teams
- Platform Engineering

Targeted Industries:

- Information Technology
- Financial Services
- Telecommunications
- Healthcare & Life Sciences
- Energy & Utilities
- Government & Public Sector

Course Offerings:

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

- Build and deploy applications using Source-to-Image S2I
- Configure basic CI/CD pipelines with OpenShift Pipelines Tekton
- Operate and monitor applications using integrated platform tools
- Utilize the OpenShift Web Console and oc CLI commands
- Understand the distinctions between OpenShift and Kubernetes
- Manage Projects and configure Routes within OpenShift
- Scale applications and configure basic health checks

Training Methodology:

This course blends theoretical instruction with hands-on practice. Training methodologies include interactive lectures, group troubleshooting sessions, guided labs, and simulated real-world use cases. Participants will complete structured labs on deployment automation, application scaling, pipeline creation, and container debugging. Collaborative discussions, visual configuration walkthroughs, and feedback sessions will reinforce core concepts and promote practical learning outcomes.

Course Toolbox:

- Lab environment access
- Command-line guides and usage scenarios
- Step-by-step configuration examples
- Platform UI navigation exercises
- YAML configuration samples for pipelines and templates

Course Agenda:

Day 1: OpenShift Foundations & Essentials

- **Topic 1:** Introduction to OpenShift and its Role in Modern IT
- **Topic 2:** OpenShift vs Kubernetes: Concepts and Architecture
- **Topic 3:** Understanding Projects, Services, and Routes
- **Topic 4:** Working with oc CLI and the Web Console
- **Topic 5:** Deploying Applications with BuildConfig and DeploymentConfig
- **Topic 6:** Overview of Platform Architecture and Developer Access
- **Reflection & Review:** Recap of Core Concepts and Platform Navigation

AGILE LEADERS
Training Center

Day 2: Application Deployment Essentials

- **Topic 1:** Introduction to Source-to-Image S2I Workflows
- **Topic 2:** Deploying Applications with Git Integration
- **Topic 3:** Application Scaling: Manual and Automatic Approaches
- **Topic 4:** Configuring Routes and Service Exposure
- **Topic 5:** Health Checks: Readiness and Liveness Probes
- **Topic 6:** Debugging Containers with CLI and UI Tools
- **Reflection & Review:** Practice Session: Deploy and Troubleshoot

Day 3: CI/CD Fundamentals with Pipelines

- **Topic 1:** Understanding OpenShift Pipelines and Tekton Basics
- **Topic 2:** Automating Builds with BuildConfig and Triggers
- **Topic 3:** Creating and Executing Pipelines
- **Topic 4:** Managing PipelineRun and TaskRun Workflows
- **Topic 5:** Git-Based Automation and Webhook Integration
- **Topic 6:** Simplified Configuration with Service Binding Concepts
- **Reflection & Review:** CI/CD Exercise and Review Discussion

Day 4: Monitoring and Operational Management

- **Topic 1:** Resource Monitoring and Metrics Overview
- **Topic 2:** Using the Web Console for Performance Insights
- **Topic 3:** Accessing Logs and Events; CLI Debug Tools
- **Topic 4:** Introduction to Templates and Deployment Automation
- **Topic 5:** User Roles and Project Access Control
- **Topic 6:** Developer Tooling and Local Integration Options
- **Reflection & Review:** Operational Best Practices Discussion

Day 5: Readiness for Production Environments

- **Topic 1:** Persistent Storage and Application State Management
- **Topic 2:** Configuring Advanced Routes and Network Policies
- **Topic 3:** Best Practices for Local Cluster Setup
- **Topic 4:** Reviewing Real-World Use Cases and Scenarios
- **Topic 5:** Preparation for Continued Learning and Advanced Skills
- **Topic 6:** Application Design Considerations for Developers
- **Reflection & Review:** Capstone Project Presentations

FAQ:

What specific qualifications or prerequisites are needed for participants before enrolling in the course?

Familiarity with basic software development concepts and version control tools e.g., Git is recommended. Prior experience with containers or Kubernetes is helpful but not required.

How long is each day's session, and is there a total number of hours required for the entire course?

Each day's session is generally structured to last around 4-5 hours, with breaks and interactive activities included. The total course duration spans five days, approximately 20-25 hours of instruction.

What is the difference between OpenShift Pipelines and Jenkins for CI/CD?

While Jenkins is a general-purpose CI/CD tool, OpenShift Pipelines is a Kubernetes-native solution based on Tekton. It integrates tightly with OpenShift's security model, allows containerized steps, and scales automatically within the OpenShift platform.

How This Course is Different from Other OpenShift Courses:

Unlike traditional OpenShift courses that focus purely on system administration, "OpenShift Essentials Bootcamp: Build, Deploy & Operate" centers on essential skills needed by developers and DevOps teams. This course emphasizes foundational concepts and real-world workflows, including Source-to-Image automation, pipeline configuration, health checks, and scaling strategies. It provides practical training through hands-on sessions and scenario-based exercises that prepare teams for immediate use of OpenShift in enterprise environments. With a focus on the essentials, participants gain the confidence to deploy, manage, and scale containerized applications effectively.

AGILE LEADERS
Training Center

Training Course Categories

Agile PM and Project Management Training Courses

Certified Courses By International Bodies

Communication and Public Relations Training Courses

Data Analytics Training and Data Science Courses

Environment & Sustainability Training Courses

Finance and Accounting Training Courses

Governance, Risk and Compliance Training Courses

Human Resources Training and Development Courses

IT Security Training & IT Training Courses

Leadership and Management Training Courses

Legal Training, Procurement and Contracting Courses

Maintenance Training and Engineering Training Courses

AGILE LEADERS
Training Center

Training Course Categories

Marketing, Customer Relations, and Sales Courses

Occupational Health, Safety and Security Training Courses

Personal & Self-Development Training Courses

Quality and Operations Management Training Courses

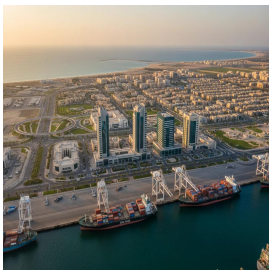
Secretarial and Administration Training Courses

AGILE LEADERS
Training Center

Training Cities

Abu Dhabi - UAE

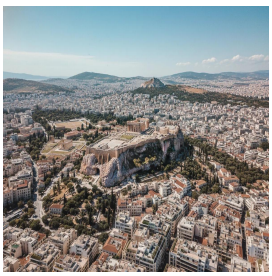
Accra - Ghana



Al Jubail - Saudi Arabia

Amman - Jordan

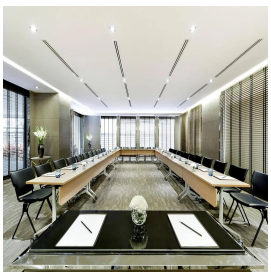
Amsterdam - Netherlands



Athens - Greece

Baku - Azerbaijan

Bali - Indonesia



Bangkok - Thailand

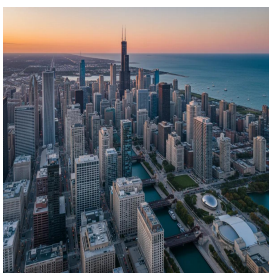
Barcelona - Spain

Berlin - Germany

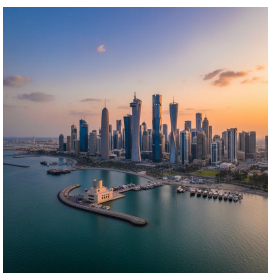
Cairo - Egypt

Cape town - South Africa

Casablanca - Morocco



Chicago - USA



Doha - Qatar

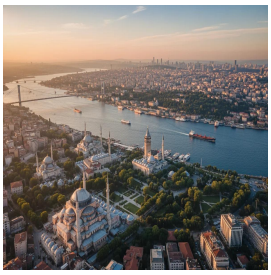
AGILE LEADERS
Training Center

Training Cities

Dubai - UAE

Frankfurt - Germany

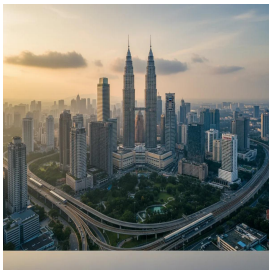
Geneva - Switzerland



Istanbul - Turkey

Jakarta - Indonesia

Johannesburg - South Africa



Kuala Lumpur - Malaysia

Kuwait - Kuwait

Langkawi - Malaysia

Lisbon - Portugal

London - UK

Madrid - Spain

Manama - Bahrain

Marbella - Spain

Milan - Italy

Montreux - Switzerland

AGILE LEADERS
Training Center

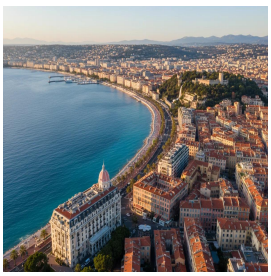
Training Cities

Munich - Germany

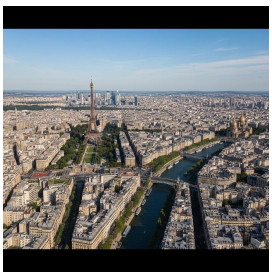
Muscat - Oman

Nairobi - Kenya

New York - USA



Nice - France



Paris - France

Phuket - Thailand

Porto - Portugal

Prague - Czech Republic

Riyadh - Saudi Arabia

Rome - Italy

San Diego - USA

Seoul - South Korea

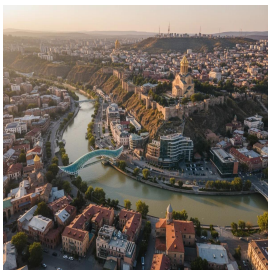
Sharm El-Sheikh - Egypt

Singapore - Singapore

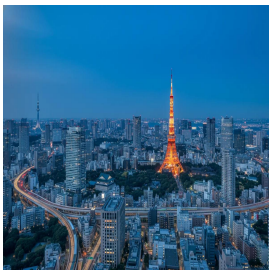
Tashkent - Uzbekistan

AGILE LEADERS
Training Center

Training Cities

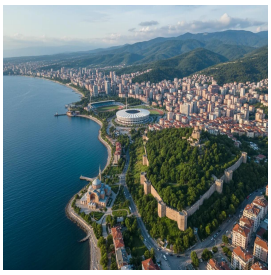


Tbilisi - Georgia

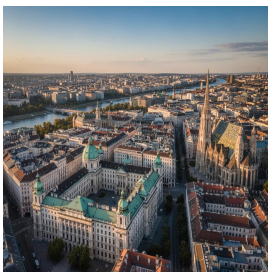


Tokyo - Japan

Toronto - Canada



Trabzon - Turkey



Vienna - Austria

Zanzibar - Tanzania

Zoom - Online Training

WHO WE ARE

Agile Leaders is a renowned training center with a team of experienced experts in vocational training and development. With 20 years of industry experience, we are committed to helping executives and managers replace traditional practices with more effective and agile approaches.

OUR VISION

We aspire to be the top choice training provider for organizations seeking to embrace agile business practices. As we progress towards our vision, our focus becomes increasingly customer-centric and agile.

OUR MISSION

We are dedicated to developing value-adding, customer-centric agile training courses that deliver a clear return on investment. Guided by our core agile values, we ensure our training is actionable and impactful.

WHAT DO WE OFFER

At Agile Leaders, we offer agile, bite-sized training courses that provide a real-life return on investment. Our courses focus on enhancing knowledge, improving skills, and changing attitudes. We achieve this through engaging and interactive training techniques, including Q&As, live discussions, games, and puzzles.

AGILE LEADERS
Training Center

CONTACT US

UAE, Dubai Investment Park First

+971585964727
+447700176600

sales@agile4training.com