



# OpenShift Essentials Bootcamp Training Course: Build, Deploy & Operate



**AGILE LEADERS**  
Training Center

06 - 10 Jul 2026

عن بعد

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## 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

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

## Day 2: Application Deployment Essentials

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

## Day 3: CI/CD Fundamentals with Pipelines

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

## Day 4: Monitoring and Operational Management

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

## Day 5: Readiness for Production Environments

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

## 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.



## فئات الدورات التدريبية



HR TRAINING & DEVELOPMENT

دورات إدارة و تطوير الموارد البشرية



دورات إدارة و تحليل البيانات ودورات علم البيانات



دورات إدارة الجودة وتطوير العمليات



الدورات التدريبية في مجال البيئة والاستدامة



دورات التسويق وإدارة علاقات العملاء وإدارة المبيعات



دورات التدريب القانوني والمشتريات والتعاقدات



دورات الاتصال الجماهيري و السياسات والعلاقات العامة



دورات النظم السيرياني ودورات تقنية المعلومات



دورات الصيانة ودورات المجالات الهندسية المتنوعة



دورات الصحة والسلامة والأمن المهني



دورات السكرتارية و إدارة المكاتب



دورات الحوكمة وإدارة المخاطر والامتثال



## فئات الدورات التدريبية



دورات معتمدة بشهادة CPD



دورات في مجالات القيادة والإدارة



دورات المهارات الشخصية وتطوير الذات



دورات المحاسبة و التمويل و دورات الإدارة  
الهائية



دورات مكتب إدارة المشاريع وإدارة المشاريع  
الرشيقية



دورات معتمدة من قبل هيئات دولية

## مدن التدريب



اسطنبول - تركيا



أموستردام - هولندا



أنقرة - تركيا



أثينا - اليونان



الرياض - المملكة العربية السعودية



الدوحة - قطر



الدار البيضاء - المغرب



الجبيل - المملكة العربية السعودية



باريس - فرنسا



المنامة - مملكة البحرين



الكويت - الكويت



القاهرة - مصر



براغ - جمهورية التشيك



بانكوك - تايلاند



بالي - جمهورية إندونيسيا



باكو - أذربيجان

## مدن التدريب



جاكرتا - جمهورية اندونيسيا



تبليسي - جورجيا



بوكيت - تايلاند



برشلونة - إسبانيا



روما - إيطاليا



دبي - الإمارات العربية المتحدة



جوهانسبرغ - جنوب إفريقيا



جنيف - سويسرا



شرم الشيخ - مصر



سيول - كوريا الجنوبية



سان دييغو - الولايات المتحدة الأمريكية



زنجبار - تنزانيا



طوكيو - اليابان



طشقند - أوزبكستان



طرابزون - تركيا



شيكاغو - الولايات المتحدة الأمريكية

## مدن التدريب



كوالالمبور - ماليزيا



فيينا - النمسا



عن بعد - منصة زووم



عمان - المملكة الأردنية الهاشمية



ماربيا - اسبانيا



لندن - المملكة المتحدة



لانكاوي - ماليزيا



كيب تاون - جنوب إفريقيا



ميلان - إيطاليا



مونترنو - سويسرا



مسقط - سلطنة عمان



مدريد - إسبانيا



نيس - فرنسا



نيروبي - كينيا



ميونخ - ألمانيا

# 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**  
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