



RED HAT TRAINING

Ai268 Develop Deploy Ai ML Red Hat Openshift

Develop and deploy AI/ML applications efficiently on Red Hat OpenShift. Master operationalizing machine learning models in production environments.

DURATION

2 hours

LEVEL

Intermediate

FORMAT

Instructor-Led

- Globally Recognized Certification

- Expert-Led Hands-On Training

- Flexible Scheduling

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COURSE OVERVIEW

This concise, intermediate-level course, "Ai268 Develop Deploy Ai ML Red Hat Openshift," empowers developers and data scientists to efficiently build, train, and deploy artificial intelligence and machine learning models within an enterprise-grade Red Hat OpenShift environment. You'll learn to leverage OpenShift's robust containerization and orchestration capabilities to standardize and accelerate your AI/ML lifecycle, moving from development to production with confidence and scalability. The course focuses on practical, hands-on techniques for integrating common AI/ML frameworks and tools into a cloud-native platform.

Participants will gain critical skills in automating the deployment of machine learning models, managing their lifecycle, and ensuring their high availability and performance. By mastering these MLOps principles on OpenShift, you will enhance your ability to contribute to scalable AI solutions, streamline team collaboration, and reduce operational overhead for AI-driven applications. This knowledge is invaluable for anyone looking to bridge the gap between AI/ML model development and secure, efficient production deployment in modern IT infrastructures, providing a significant competitive edge in the evolving tech landscape.

Duration	2 hours
Level	Intermediate
Vendor	Red Hat
Exam Code	AI-268

COURSE CURRICULUM

01 Module 1: Introduction to AI/ML on OpenShift

- Understanding the MLOps Challenge
- Red Hat OpenShift as an AI/ML Platform
- Key OpenShift Concepts for AI/ML (Projects, Deployments, Services)
- Overview of OpenShift AI/ML Tooling and Ecosystem

02 Module 2: Preparing Your AI/ML Workloads for OpenShift

- Containerizing AI/ML Applications with Dockerfiles
- Managing Dependencies for Python-based ML Models
- Introduction to Jupyter Notebooks on OpenShift
- Accessing Persistent Storage for Datasets and Models

03 Module 3: Deploying and Managing ML Models

- Creating OpenShift Deployment Configurations for ML Models
- Exposing ML Models as RESTful APIs with OpenShift Routes
- Strategies for Model Versioning and A/B Testing
- Basic Monitoring of Deployed ML Services

04 Module 4: Automating the ML Lifecycle on OpenShift

- Introduction to OpenShift Pipelines for MLOps (Tekton)
- Building CI/CD Pipelines for ML Model Development and Deployment
- Integrating Git Repositories with OpenShift for MLOps Workflows
- Reviewing Best Practices for Productionizing AI/ML on OpenShift

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **MLOps Engineer (specializing in OpenShift deployments)**
- > **Cloud-Native AI/ML Developer**
- > **Enterprise Data Scientist (focused on productionizing models)**

FREQUENTLY ASKED QUESTIONS

Q: What specific skills will I gain that are directly applicable to MLOps roles after completing this Ai268 course?

Upon completing the Ai268 course, you will be proficient in containerizing machine learning models for OpenShift, deploying them as scalable services, exposing them via OpenShift Routes, and building basic CI/CD pipelines using OpenShift's native tooling for automated model updates. These skills are fundamental for any MLOps Engineer focused on operationalizing AI/ML workloads in a Kubernetes-native environment like Red Hat OpenShift.

Q: What are the recommended prerequisites for someone considering the 'Ai268 Develop Deploy Ai ML Red Hat Openshift' course?

This intermediate course assumes you have a foundational understanding of machine learning concepts and some experience with Python programming. Familiarity with containerization (Docker) and basic Linux command-line usage is highly beneficial. While not strictly required, prior exposure to Kubernetes or OpenShift concepts will help you grasp the material more quickly.

Q: How does this course help integrate existing AI/ML model development workflows, perhaps using frameworks like TensorFlow or PyTorch, into a production-ready OpenShift environment?

This course teaches you the crucial step of taking your trained AI/ML models, regardless of the framework (TensorFlow, PyTorch, Scikit-learn, etc.), and packaging them into deployable containers. You'll learn how to configure these containers to run efficiently on OpenShift, expose their prediction endpoints, and manage their lifecycle, effectively bridging your development environment with a robust, scalable production platform provided by Red Hat OpenShift.

ABOUT COMPUTER PRIDE



East Africa's Premier IT Training Center

With over 15 years of excellence, Computer Pride delivers globally recognized certification programs from leading technology vendors. Located on Kenyatta Avenue in Nairobi's CBD, our state-of-the-art facilities and expert instructors have empowered thousands of professionals across East Africa.

15+

Years of Excellence

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READY TO ENROL?

Take the next step in your technology career.

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