

## Developing and Deploying AI/ML Applications on Red Hat OpenShift AI (AI267)

**Duration: 3 Days**    **Course Code: AI267**

### Overview:

#### An introduction to developing and deploying AI/ML applications on Red Hat OpenShift AI.

Developing and Deploying AI/ML Applications on Red Hat OpenShift AI (AI267) provides students with the fundamental knowledge about using Red Hat OpenShift for developing and deploying AI/ML applications.

Organizations collect and store vast amounts of information from multiple sources. With Red Hat OpenShift AI, organizations have a platform ready to analyze data, visualize trends and patterns, and predict future business outcomes by using machine learning and artificial intelligence algorithms.

This course helps students build core skills for using Red Hat OpenShift AI to train, develop and deploy machine learning models through hands-on experience.

You will understand the foundations of the Red Hat OpenShift AI architecture. You will be able to install Red Hat OpenShift AI, manage resource allocations, update components and manage users and their permissions.

You will also be able to train, deploy and serve models, including how to use Red Hat OpenShift AI to apply best practices in machine learning and data science.

Finally you will be able to define and set up data science pipelines with Red Hat OpenShift AI.

This course is based on Red Hat OpenShift® 4.16, and Red Hat OpenShift AI 2.13.

**Note:** Starting January 1, 2026, Red Hat introduces RHLS-Course — a flexible subscription model now included with this catalog offering. This replaces the previous direct virtual class enrollment from Global Knowledge.

When you purchase this item, you'll receive an RHLS subscription at the course level, giving you the freedom to choose the schedule that works best and self-enroll in your selected class.

Your RHLS subscription includes:

- One live, instructor-led virtual session
- 12 months of self-paced learning access
- One certification exam with a free retake

Onsite Classroom-based sessions and closed course options remain unchanged.

Updated Jan2026

### Virtual Learning

This interactive training can be taken from any location, your office or home and is delivered by a trainer. This training does not have any delegates in the class with the instructor, since all delegates are virtually connected. Virtual delegates do not travel to this course, Global Knowledge will send you all the information needed before the start of the course and you can test the logins.

### Target Audience:

- Data scientists and AI practitioners who want to use Red Hat OpenShift AI to build and train ML models
- Developers who want to build and integrate AI/ML enabled applications
- MLOps engineers responsible for installing, configuring, deploying, and monitoring AI/ML applications on Red Hat OpenShift AI

### Objectives:

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|-----------------------------------------------------|-------------------------------------------------|
| ■ After this course participants should be able to: | ■ Use Training Models                           |
| ■ Understand the basis of Red Hat OpenShift AI      | ■ Enhance Model Training with RHOAI             |
| ■ Handle Data Science Projects                      | ■ Get an introduction to Model Serving          |
| ■ Use Jupyter Notebooks                             | ■ Use Model Serving in Red Hat OpenShift AI     |
| ■ Manage Red Hat OpenShift AI Installation          | ■ Get an introduction to Data Science Pipelines |
| ■ Handle Users and Resources Management             | ■ Work with Pipelines                           |
| ■ Custom Notebook Images                            | ■ Control Pipelines and Experiments             |
| ■ Get an introduction to Machine Learning           |                                                 |

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## Prerequisites:

- Experience with Git is required
- Experience in Python development is required, or completion of the Python Programming with Red Hat (AD141) course
- Experience in Red Hat OpenShift is required, or completion of the Red Hat OpenShift Developer II: Building and Deploying Cloud-native Applications (DO288) course
- Basic experience in the AI, data science, and machine learning fields is recommended

Take Red Hat free assessment to gauge whether this offering is the best fit for your skills [Red Hat Skills Assessment](#)

## Testing and Certification

Red Hat Certified Specialist in OpenShift AI Exam (EX267)

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## Follow-on-Courses:

None

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## Content:

| Introduction to Red Hat OpenShift AI                                                                               | Custom Notebook Images                                                                                        | Model Serving in Red Hat OpenShift AI                                           |
|--------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| Identify the main features of Red Hat OpenShift AI, and describe the architecture and components of Red Hat AI.    | Creating custom notebook images, and importing a custom notebook through the Red Hat OpenShift AI dashboard   | Serve trained machine learning models with OpenShift AI                         |
| Data Science Projects                                                                                              | Introduction to Machine Learning                                                                              | Custom Model Servers                                                            |
| Organize code and configuration by using data science projects, workbenches, and data connections                  | Describe basic machine learning concepts, different types of machine learning, and machine learning workflows | Deploy and serve machine learning models by using custom model serving runtimes |
| Jupyter Notebooks                                                                                                  | Training Models                                                                                               | Introduction to Data Science Pipelines                                          |
| Use Jupyter notebooks to execute and test code interactively                                                       | Train models by using default and custom workbenches                                                          | Create, run, manage, and troubleshoot data science pipelines                    |
| Installing Red Hat OpenShift AI                                                                                    | Enhancing Model Training with RHOAI                                                                           | Elyra Pipelines                                                                 |
| Installing Red Hat OpenShift AI by using the web console and the CLI, and managing Red Hat OpenShift AI components | Use RHOAI to apply best practices in machine learning and data science                                        | Creating a Data Science Pipeline with Elyra                                     |
| Managing Users and Resources                                                                                       | Introduction to Model Serving                                                                                 | KubeFlow Pipelines                                                              |
| Managing Red Hat OpenShift AI users, and resource allocation for Workbenches                                       | Describe the concepts and components required to export, share and serve trained machine learning models      | Creating a Data Science Pipeline with KubeFlow SDK                              |

## Additional Information:

Official course book provided to participants

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## Further Information:

For More information, or to book your course, please call us on Head Office Tel.: +974 40316639

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