

DEVOPS CURRICULUM

Red Hat Training and Certification

DATASHEET



HIGHLIGHTS

- Training courses and exams cover containers, Kubernetes, Red Hat OpenShift, Red Hat Ansible Engine, Red Hat Ansible Tower, and Puppet.
- Instructors have an average 20 years of IT experience.

FEATURES

- Job role- and solution-focused training and certification
- Task-driven instructional design focused on practical solutions
- Concepts reinforced through hands-on labs
- 100% performance-based exams
- Convenient self-paced options
- Curriculum designed on input from support, engineering, and consulting
- Individual and team skills assessments

INTRODUCTION

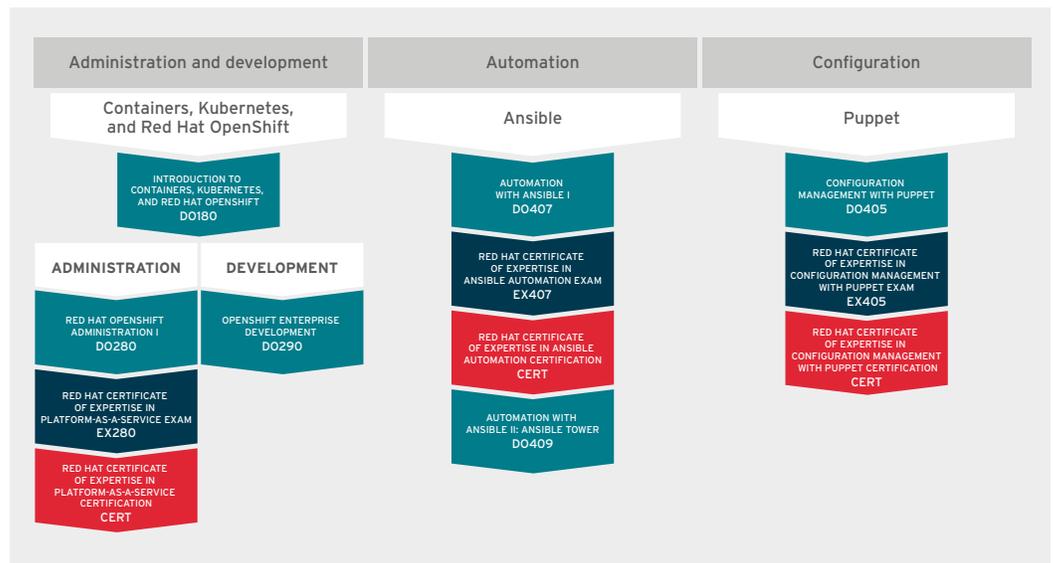
You need essential DevOps skills to succeed and to take IT investments from mediocre to effective and efficient, resulting in faster time to market, lower failure rate on new releases, and shortened lead time between fixes.

Because DevOps is not a product, but a methodology and culture, staff working in a DevOps environment should know certain technologies and have certain skills. Red Hat Training and Certification can help you and your organization validate the critical open source and DevOps skills needed to accelerate application delivery.

To help you surpass your IT goals, we will assess your skills, train you with hands-on courses, and validate your skills with performance-based examinations. We offer a training and certification curriculum designed to help you demonstrate expertise in DevOps-related technologies, such as containers, Red Hat Ansible Engine, Red Hat Ansible Tower, and Puppet.

You will learn the basics Linux® containers, how to deploy and manage Red Hat OpenShift Container Platform as an administrator or a developer, how to automate with Red Hat Ansible Engine, and the skills needed to be a Red Hat Certified Architect (RHCA) with a concentration in DevOps.

TRAINING AND EXAM METHODS



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RED HAT LEARNING SUBSCRIPTION

Red Hat Learning Subscription not only delivers access to DevOps skills on Ansible and OpenShift, but to the entire Red Hat self-paced training portfolio in a single, annual subscription. Take over 50 online and video courses, as well as certification exams, on your own time—without the expense of travel or time out of the office.

BENEFITS

92%

of subscribers say having immediate access to the latest course content through Red Hat Learning Subscription has helped them better maintain technical skills.¹

96%

of subscribers say that unlimited access to Red Hat online training course content has improved their ability to adopt new emerging technologies.¹

Learn more on redhat.com.

Get trained when and how you need it. Red Hat Training provides flexible training options for IT professionals and global teams.

TABLE 1. RED HAT TRAINING AND CERTIFICATION WAYS TO TRAIN KEY

CLASSROOM TRAINING

Live, instructor-led training in an interactive classroom environment, conducted in a comfortable, professional setting.

VIRTUAL TRAINING

Live, instructor-led training in a virtual environment, featuring the same hands-on labs and content as our classroom training.

ONLINE LEARNING

Self-paced courses presented in HTML5, including hands-on labs and short videos from Red Hat experts.

VIDEO CLASSROOM

High-definition, self-paced, interactive videos of our top instructors, featuring the same hands-on labs and content as our classroom training.

PRIVATE ON-SITE TRAINING

Private training for your entire team or department, delivered at your location—at a training center—or online.

INDIVIDUAL EXAMS

Hands-on tests taken on a secure, preconfigured testing station at a Red Hat location or Red Hat partner location.

TABLE 2. SUCCESS COMES FROM CHOOSING WHAT IS BEST FOR YOU

WHICH TRAINING OPTION IS RIGHT FOR YOU?								
	Live interaction with instructors and students	In a training center classroom	Online courses	Instructor videos	Online and video courses for one year	90-day access for one course	Hands-on labs and robust content	Available globally in multiple languages
CLASSROOM	✓	✓					✓	✓
ON-SITE TRAINING	✓	✓					✓	✓
VIRTUAL TRAINING	✓						✓	✓
ONLINE LEARNING			✓	✓		✓	✓	✓
VIDEO CLASS			✓	✓		✓	✓	✓*
RED HAT LEARNING SUBSCRIPTION			✓	✓	✓		✓	✓

*English with limited translations

¹ Red Hat Learning Subscription subscriber survey, May 2016.

96%

of our students say they are better prepared to maximize the value of their Red Hat technology investment after taking our training.²

92%

of students are able to work more independently and rely less on co-workers and/or customer support after taking Red Hat training.³

91%

of students report more successful IT projects involving Red Hat technologies after training.²

82%

of job postings on popular job sites for IT professionals with Linux certifications are for Red Hat Certified Professionals.⁴

RECOMMENDED PREREQUISITES FOR DEVOPS CURRICULUM

Red Hat System Administration I (RH124)

red.ht/rh124

Part 1 of the core system administration tasks needed for Red Hat Enterprise Linux, focusing on providing students with Linux administration “survival skills” by concentrating on core administration tasks needed to become a full-time Linux administrator.

Available via: Classroom training, Virtual training, Online learning, Video classroom, Private on-site training

Red Hat System Administration II (RH134)

red.ht/rh134

Part 2 of the core system administration tasks needed for Red Hat Enterprise Linux, focusing on the key tasks needed to become a full-time Linux administrator.

Available via: Classroom training, Virtual training, Online learning, Video classroom, Private on-site training

RHCSA Rapid Track (RH199)

red.ht/rh199

Designed for students who already have significant experience with Linux administration.

The course reviews the tasks covered in Red Hat System Administration I (RH124) and II (RH134) at an accelerated pace.

Available via: Classroom training, Virtual training, Online learning, Private on-site training

Red Hat Certified System Administrator exam (EX200)

red.ht/ex200

Prove your skills and knowledge in the core system administration in Red Hat Enterprise Linux by taking Red Hat Certified System Administrator exam (EX200). Upon passing the exam, you earn the Red Hat Certified System Administrator (RHCSA®) certification.

Available via: Classroom training, Private on-site training, Individual exams

Red Hat Certified System Administrator certification

red.ht/rhcsa

An IT professional who successfully passes the Red Hat Certified System Administrator exam (EX200) earns the Red Hat Certified System Administrator certification. This proves they are able to perform the core system administration skills required in Red Hat Enterprise Linux environments.

DEVOPS CURRICULUM

RED HAT OPENSIFT ADMINISTRATION AND DEVELOPMENT

Introduction to Containers, Kubernetes, and Red Hat OpenShift (DO180)

red.ht/doi80

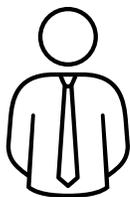
Build and manage docker containers for deployment on a Kubernetes cluster. This course helps students build core knowledge and skills in managing containers through hands-on experience with docker, Kubernetes, and Red Hat OpenShift Container Platform.

Available via: Classroom training, Virtual training, Online learning, Private on-site training

² Red Hat student global course evaluation survey, Nov. 2016.

³ Independent survey of Red Hat students conducted by TSIA, 2016.

⁴ [Best Linux Certifications for 2016, TomsITPro.com](https://www.tomshardware.com/news/best-linux-certifications-2016)



*“Continuous learning
 inspires innovation.
 Keeping the skills of
 our IT team up-to-date
 and providing them
 with the right training is
 essential. By equipping
 the team with high-level
 technical competency
 and knowledge of
 best practices, we are
 able to innovate and
 consistently deliver
 high-quality solutions to
 our customers.”*

ANURAG SINDHWANI
 VICE PRESIDENT AND HEAD OF TECHNOLOGY AND ARCHITECTURE
 XCHANGING MALAYSIA SDN BHD⁵

RED HAT OPENSIFT ADMINISTRATION

Red Hat OpenStack Administration I (DO280)

red.ht/do280

Learn to install and configure an instance of Red Hat OpenShift Container Platform, test the instance by deploying an actual application, and manage projects and applications through hands-on labs.

Available via: Classroom training, Virtual training, Online learning, Private on-site training

Red Hat Certificate of Expertise in Platform-as-a-Service exam (EX280)

red.ht/ex280

Demonstrate your ability to create, configure, and manage a cloud application using Red Hat OpenShift Container Platform.

Available via: Classroom training, Private on-site training, Individual exams

RED HAT OPENSIFT DEVELOPMENT

OpenShift Enterprise Development (DO290)

red.ht/do290

Learn to create, update, and maintain applications using Red Hat OpenShift Container Platform. You will be immersed in a DevOps environment through the use of agile software development methodology, test-driven development, continuous integration, and a standard operating environment through the use of Platform-as-a-Service (PaaS).

Available via: Classroom training, Virtual training, Online learning, Private on-site training

RED HAT ANSIBLE AUTOMATION

Automation with Ansible I (DO407)

red.ht/do407

Learn to use Ansible for automation, configuration, and management and how to install and configure Ansible, to create and run Ansible playbooks, and to manage inventories.

Available via: Classroom training, Virtual training, Online learning, Private on-site training

Red Hat Certificate of Expertise in Ansible Automation exam (EX407)

red.ht/ex407

Prove your knowledge, skills, and abilities to use Ansible to automate the configuration of your systems and applications.

Available via: Classroom training, Private on-site training, Individual exams

Automation with Ansible II: Ansible Tower (DO409)

red.ht/do409

Learn to use Ansible to centrally manage their Ansible projects in a way that scales to large teams and complex enterprise installations.

Available via: Classroom training, Virtual training, Online learning, Private on-site training

PUPPET AUTOMATION

Configuration Management with Puppet (DO405)

red.ht/do405

Learn to implement Puppet as integrated with Red Hat products in an operations environment or a cloud computing environment. Designed for system administrators and cloud administrators.

Available via: Classroom training, Virtual training, Online learning, Private on-site training

⁵ *Xchanging Malaysia trains for next-generation solutions*, March 2016.

In 2016, it was reported that Ansible skill sets received the highest paying salary in the IT industry for DevOps.⁶

93%

of Red Hat Certified Professionals agree that Red Hat's 100% hands-on testing approach provides a better measure of skills and knowledge.⁷

71%

of respondents anticipate using containers for cloud applications or are already using them.⁸

Red Hat Certificate of Expertise in Configuration Management with Puppet exam (EX405)

red.ht/ex405

Prove your skills in the set up and configuration of Puppet services with the Red Hat portfolio.

Available via: Classroom training, Private on-site training, Individual exams

RED HAT CERTIFIED ARCHITECT: DEVOPS

RHCA: DevOps

red.ht/rhca-devops

Additional DevOps training and certification is available with the RHCA: DevOps, a concentration in skills that include multiple approaches to container management and automation and multiple approaches to configuration management and automation. A Red Hat Certified Engineer (RHCE®) or Red Hat Certified JBoss Developer (RHCJD) who certifies as an RHCA: DevOps has proven knowledge of DevOps skills to quickly move applications and updates from development, through build and testing, and on to production. For this concentration, complete these five certifications:

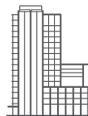
- [Red Hat Certificate of Expertise in Platform-as-a-Service](#)
- [Red Hat Certificate of Expertise in Atomic Host Container Administration](#)
- [Red Hat Certificate of Expertise in Containerized Application Development](#)
- [Red Hat Certificate of Expertise in Ansible Automation](#)
- [Red Hat Certificate of Expertise in Configuration Management](#)

Learn more about our portfolio of courses, exams, and certifications. redhat.com/en/services/certification/rhca/devops

⁶ [2016 Dice.com DevOps salary survey.](#)

⁷ [Statistics based on 166 responses to a 2015 Red Hat certification survey.](#)

⁸ [Maximize Container Benefits with a Top-Down Approach](#), Forrester Research, 2016.



ABOUT RED HAT

Red Hat is the world's leading provider of open source software solutions, using a community-powered approach to provide reliable and high-performing cloud, Linux, middleware, storage, and virtualization technologies. Red Hat also offers award-winning support, training, and consulting services. As a connective hub in a global network of enterprises, partners, and open source communities, Red Hat helps create relevant, innovative technologies that liberate resources for growth and prepare customers for the future of IT.



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