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RED HAT
TRAINING AND CERTIFICATION

Course Catalog: March – September 2011

6 RED HAT® ENTERPRISE LINUX®

INCLUDES NEW COURSES TO GET YOU UP TO SPEED

INCREASE SKILL SETS
INCREASE PRODUCTIVITY
INCREASE SAVINGS

MULTI-STUDENT DISCOUNT

Training together is a proven way for your IT staff to maximize performance, savings, and management of their Red Hat technologies. With our multi-student team discounts, there's no better time to train. Enroll students from the same organization in the same open enrollment class to receive the discounts.

STUDENTS	DISCOUNT	PROMO CODE
2 or 3	10%	Multi23
4 or 5	14%	Multi45

Have more than five students? Consider corporate onsite training—more information on page 7.

All promotions are subject to terms and conditions.
See https://www.redhat.com/training/specials/multi_student_discount for details.

SIGN UP

Subscribe to Red Hat Training E-Newsletter for special savings offers, spotlight training courses, and "Tips and Tricks".

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What's new

TRAINING PATHS FOR EXPANDED I.T. AUDIENCES
Red Hat now offers multiple training paths for wider variance of student skill sets.

NEW SYSTEM ADMINISTRATION COURSES
Check out our new Red Hat system administration courses, all taught on Red Hat Enterprise Linux 6.

RED HAT CERTIFIED SYSTEM ADMINISTRATOR
The new RHCSA credential aligns with the critical skills required of today's system administrators.

NOT SURE WHICH COURSE TO TAKE?
Identify the right training course for your skill set with our new online skills assessment tool.

6 RED HAT® ENTERPRISE LINUX®

SETTING THE STANDARD FOR THE NEXT GENERATION OF OPERATING SYSTEMS

Red Hat Enterprise Linux 6 delivers dramatic improvements in reliability, performance, scalability, security, and infrastructure flexibility that span bare metal, virtualized, and cloud deployments.

Enhanced tools and new capabilities in this release enable administrators to tailor their application environment and improve their agility, lower their costs, and reduce complexity.

Red Hat Training and Certification

REALIZE THE POTENTIAL OF YOUR IT STAFF AND TECHNOLOGIES WITH RED HAT TRAINING

Your team is your most valuable asset. By investing in the expertise of your staff, you can ensure optimal system performance, enhanced productivity, and mitigate risk. When you include hands-on training from Red Hat as part of your deployment and maintenance strategy, you can maximize the value of your Red Hat technology investment and reach new productivity heights.

- Successfully deploy new Red Hat enterprise technologies
- Solve routine and challenging problems in less time
- Better manage internal resources with a cross-trained staff
- Permeate best practices within your IT organization for improving efficiencies
- Develop a team that has the knowledge necessary to provide ongoing value to the organization
- Reduce turnover by providing your team the challenges and training needed to stay engaged and keep your organization competitive

INDUSTRY-LEADING, ROLE-BASED TRAINING

With more than 30 enterprise Linux and middleware courses, Red Hat delivers one of the most comprehensive curricula offered in today's marketplace. Unlike most vendors, we orient our training and certifications around real-world job roles and tasks. Our certified instructors actively engage students in task-focused activities, lab-based knowledge checks, and facilitative discussions. This best-of-breed contemporary teaching approach ensures maximum skills transfer and retention, which in turn enables increased productivity and a higher return on investment.

PROVEN COMPETENCIES THROUGH PERFORMANCE-BASED TESTING

Red Hat's performance-based certifications are among the most highly regarded in the IT industry. Their success stems from a solid track record of benchmarking and hands-on skills assessment. Because of this method of testing, our customers can be assured that certification professionals on their teams have demonstrated the skills required to perform the required tasks in actual IT environments.

New Red Hat Core System Administration Curriculum and Certification

Red Hat Training has offered Linux system administration courses and certifications for over a decade. With the release of Red Hat® Enterprise Linux® 6, we will continue to offer a job-relevant, hands-on training curriculum; a robust, performance-based certification program; and a consistent training experience worldwide. That means listening to our customers, listening to the market, and taking into account developments in the job roles and backgrounds of those administering and working with Red Hat Enterprise Linux today.

TRAINING PATHS FOR EXPANDED IT AUDIENCES

In today's IT infrastructure, professionals are now required to administer multiple platforms to optimize performance and keep today's complex datacenters running smoothly. So whether your team needs an accelerated transition from Solaris or to cross-train experienced Windows administrators with the corresponding Linux skills, Red Hat offers multiple training paths for wider variance of student skill sets. Unlike most vendors, we orient our training and certifications around real-world job tasks and roles. This ensures Red Hat training has the right training path for your and your company's needs.
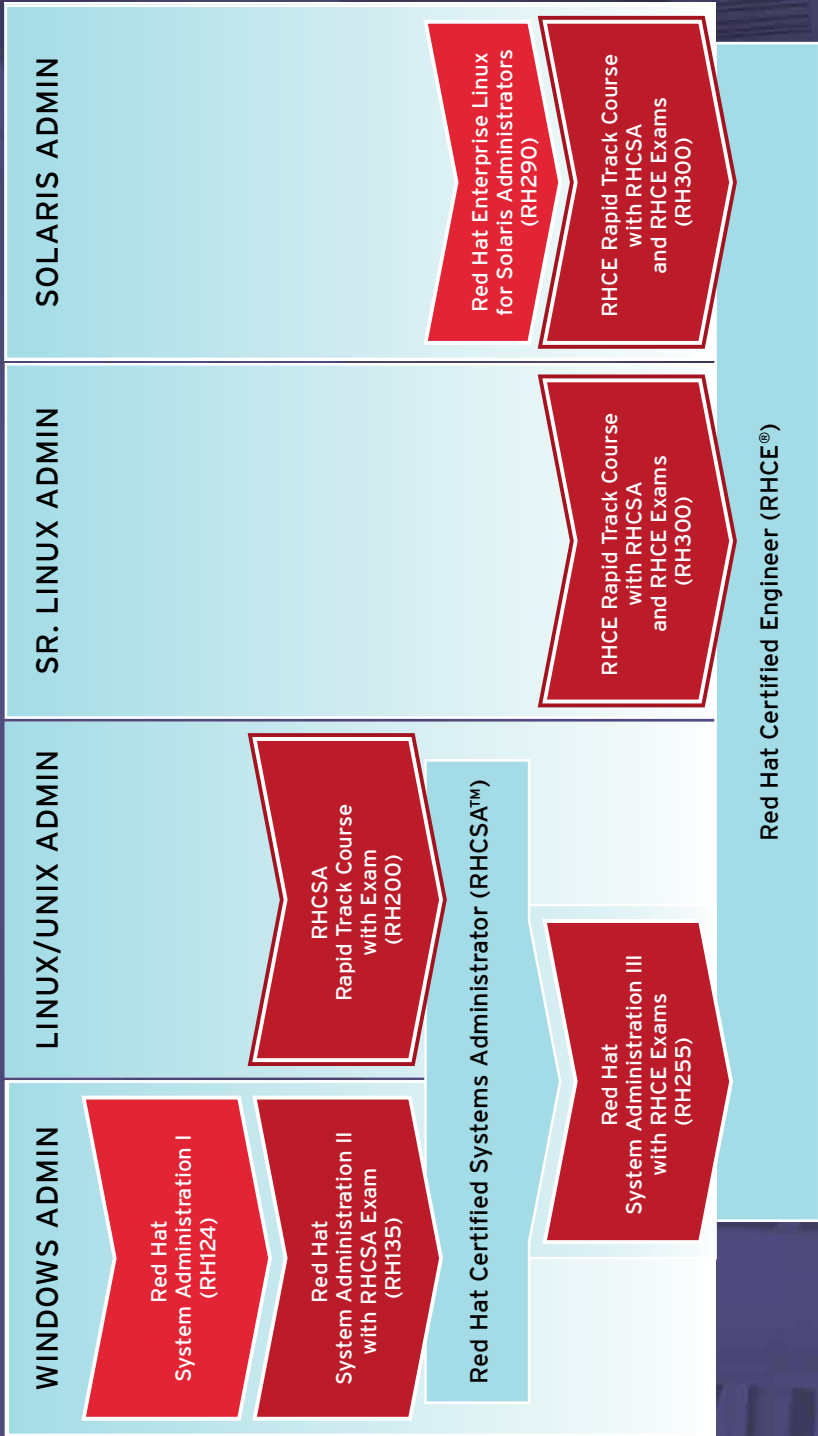
INDUSTRY-LEADING, ROLE-BASED TRAINING

Red Hat uses a best-of-breed, contemporary teaching approach to ensure maximum skills transfer and retention. This includes courses that actively engage students in task-focused activities, lab-based knowledge checks, and facilitative discussions. In addition, our course materials provide job aids, exercise reinforcement, and task-based reference material. Industry-leading, role-based training can increase a company's return on investment and an IT professional's productivity.

CERTIFICATION PROGRAM ALIGNED WITH TODAY'S MARKETPLACE

Red Hat is pleased to announce a new addition to its line of performance-based certifications–Red Hat Certified System Administrator (RHCSA). The new RHCSA credential aligns with the critical skills required of today's system administrators. Candidates who pass the hands-on RHCSA exam will be better equipped to handle the frequent, time-sensitive, and critical tasks required of Linux system administrators. As with all of Red Hat certification exams, the RHCSA exam continues the practice of evaluating knowledge and skills through hands-on, lab-based testing.

RED HAT TRAINING PATHS

WINDOWS ADMIN	LINUX/UNIX ADMIN	SR. LINUX ADMIN	SOLARIS ADMIN

Red Hat System Administration I (RH124)

Red Hat System Administration II with RHCSA Exam (RH135)

RHCSA Rapid Track Course with Exam (RH200)

Red Hat Certified Systems Administrator (RHCSA™)

Red Hat System Administration III with RHCE Exams (RH255)

RHCE Rapid Track Course with RHCSA and RHCE Exams (RH300)

Red Hat Enterprise Linux for Solaris Administrators (RH290)

RHCE Rapid Track Course with RHCSA and RHCE Exams (RH300)

Red Hat Certified Engineer (RHCE®)

ENTERPRISE LINUX®

Ways to Train

Whether you need to train a team of IT professionals, a few key individuals or just yourself, Red Hat offers a variety of learning styles, delivery methods, certifications, savings programs and customized solutions to maximize return on your Red Hat Enterprise investment.

CLASSROOM TRAINING

Red Hat offers a robust six-month schedule of classroom training in more than 40 locations across North America. That convenience, combined with our high-quality classroom experience and instructor expertise, helps ensure companies and individuals will achieve their training goals. When students attend Red Hat classroom training, they can expect:

- A convenient, comfortable, ready-to-learn environment
- Instruction and access to a savvy, experienced Red Hat certified instructors
- High-end computer hardware and equipment
- Ability to actively engage with peers in facilitative discussions

Learn more at **redhat.com/explore/classroom_training**

VIRTUAL TRAINING

The flexibility of our virtual training courses allows IT professionals to experience the same industry-recognized classroom training while maintaining a partial work schedule and achieving cost savings objectives. This is live, instructor-led training, taken from your office or home.

- Real-time instruction features the full content classroom content
- Courses are taught in convenient six-hour increments over a one-week period
- Virtual lab machines run actual products—no simulators or canned presentations
- Enrollment fees are lower than traditional classroom fees, and travel costs are eliminated
- Team virtual training is available for companies with staff working across the US and Canada

Learn more at **redhat.com/explore/virtual_training**

ONSITE TEAM TRAINING

Training teams together is a proven way for IT staff to maximize the performance, savings, and management of Red Hat Enterprise Linux. Available for the entire Red Hat curriculum, onsite training also provides the option of customizing the course content to meet your specific training requirements. Whether at your offices, our training venues, or hosted in a virtual environment, onsite solutions offer flexibility and cost-effective training options.

- Training is in the context of your actual IT environment
- Course discussion, examples, and Q&As can be relevant to your organization
- Team members acquire the same arsenal of skills, providing for enhanced workflow, communications, and troubleshooting
- The most cost-effective option to training multiple individuals at once
- Combining staff training provides cost savings on class fees and staff travel

Learn more at **redhat.com/explore/onsite_training**

UNLOCK
THE VALUE OF THE CLOUD

DRIVE INNOVATION. REDUCE COSTS.
IMPROVE BUSINESS AGILITY.

Our vision is to build not only a better cloud, but a more open one. We know your infrastructure includes diverse assets from multiple vendors. Our approach means you can manage these assets as one cloud. Without lock in. We make the move to the cloud an evolution, not a revolution.

redhat.com/cloud

Red Hat Certifications
Performance-based testing of real-world skills

Among the most highly regarded* in IT, Red Hat certifications are earned by passing rigorous practical exams in which candidates must actually perform the real-world tasks required in production environments. Red Hat certified professionals ensure that customers get the most from their deployments of Red Hat solutions.

RHCVA™ **RED HAT CERTIFIED VIRTUALIZATION ADMINISTRATOR**

A Red Hat Certified Virtualization Administrator (RHCVA) certification is earned when an IT professional demonstrates the skills and knowledge required to deploy and manage virtual hosts in production environments using Red Hat Enterprise Virtualization.

RHCSA™ **RED HAT CERTIFIED SYSTEM ADMINISTRATOR™**

A Red Hat Certified System Administrator (RHCSA) certification is earned when an IT professional demonstrates the core system administration skills required in Red Hat Enterprise Linux environments.

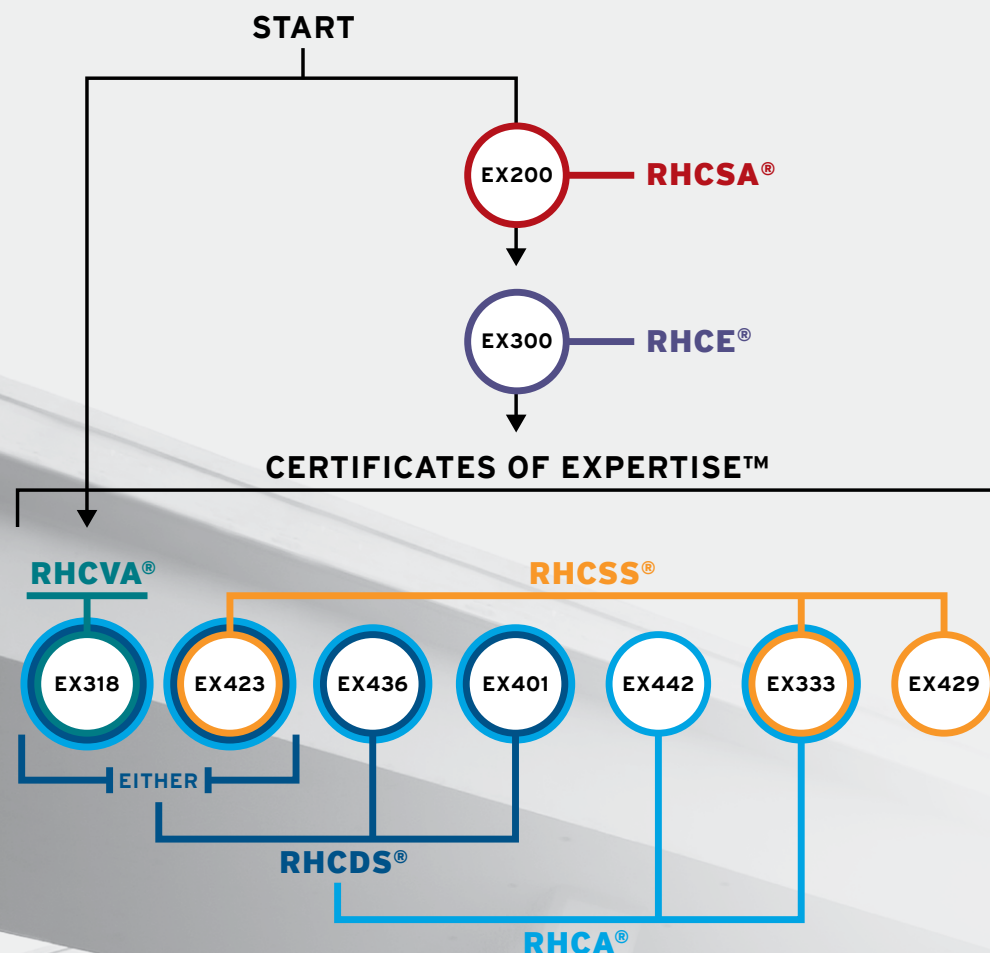**RHCE®** **RED HAT CERTIFIED ENGINEER**

A Red Hat Certified Engineer (RHCE) is earned by a Red Hat Certified System Administrator (RHCSA) who has demonstrated the knowledge, skill, and ability required of a senior system administrator responsible for Red Hat Enterprise Linux systems.

* *IDC competitive analysis IDC MarketSapce: World Wide IT Education and Training 2009 Vendor Analysis (document #216380)*

Red Hat Certifications

Performance-based testing of real-world skills

START

EX200 —— **RHCSA®**

EX300 —— **RHCE®**

CERTIFICATES OF EXPERTISE™

RHCVA®   **RHCSS®**

EX318   EX423   EX436   EX401   EX442   EX333   EX429

EITHER

RHCDS®

RHCA®

CERTIFICATIONS

RHCVA	Red Hat Certified Virtualization Administrator
RHCSA	Red Hat Certified Technician
RHCE	Red Hat Certified Engineer
RHCSS	Red Hat Certified Security Specialist
RHCDS	Red Hat Certified Datacenter Specialist
RHCA	Red Hat Certified Architect

EXPERTISE EXAMS

EX318	Enterprise Virtualization
EX333	Enterprise Security: Network Services
EX401	Deployment and System Management
EX423	Directory Services and Authentication
EX429	SELinux Policy Administration
EX436	Clustering and Storage Management
EX442	System Monitoring and Performance Tuning

RED HAT CERTIFICATES OF EXPERTISE™

Certificates of Expertise are earned by passing upper-level, performance-based exams in specialized areas of system administration. To be eligible to take an expertise exam, candidates must hold a current RHCE credential.

Certificates of Expertise are offered for:

- Red Hat Enterprise Security Network Services (EX333)
- Deployment and System Management (EX401)
- Directory Services and Authentication (EX423)
- Enterprise Virtualization (EX318)
- SELinux Policy Administration (EX429)
- Clustering and Storage Management (EX436)
- System Monitoring and Performance Tuning (EX442)

Learn more at redhat.com/certification/certificates_of_expertise

RHCSS® RED HAT CERTIFIED SECURITY SPECIALIST

An RHCSS certification may be earned by an RHCE who has demonstrated deeper capabilities in networking services security, directory services, authentication, and SELinux policy management.

Learn more at **redhat.com/certification/rhcss**

RHCDS® RED HAT CERTIFIED DATACENTER SPECIALIST

An RHCDS certification may be earned by an RHCE who has demonstrated the skills required to utilize a broader set of tools from the Red Hat portfolio to implement reliable, scalable solutions. An RHCDS possesses skills in areas particularly important to mission-critical datacenter environments.

Learn more at redhat.com/certification/rhcds

RHCA® RED HAT CERTIFIED ARCHITECT

An RHCE who earns the Red Hat Certified Architect (RHCA) certification bring an exceptional breadth and depth of knowledge to the biggest IT challenges. RHCA certification incorporates the skills and knowledge of RHCDS plus advanced networking services security, system monitoring, and performance tuning.

Learn more at **redhat.com/certification/rhca**

Lock in Savings

GUARANTEED TO RUN CLASSES

Planning your teams training in advance just got a lot easier and more cost-effective. With our "Guaranteed to Run" classes, you can rely on the fact that it won't be canceled or rescheduled based on number of attendees.

You can learn more about our Guaranteed to Run classes at: redhat.com/training/guaranteed_to_run

TRAINING UNITS

Red Hat Training Units (TUs) offer your organization a simple way to purchase training for your team while locking in savings up front. Training units are pre-paid credits that can be redeemed for JBoss Enterprise Middleware or Red Hat Enterprise Linux training offerings. These pre-paid credits give you the flexibility to purchase training in advance and allow you to use your investment throughout the year.

Flexibility and manageability

- Easy to purchase with subscriptions and individually
- Simple to administer, decreasing the need for expense reimbursement
- Eliminates the need to purchase training ad hoc

Versatility

- Can be used for up to 12 months after purchase
- Can be redeemed for any Red Hat training course, exam or training method

Savings

- Lock in volume discounts up front
- Use unallocated budget effectively

NUMBER OF UNITS	DISCOUNT	PRICE PER UNIT
0-39	None	$300
40-79	5%	$285
80-169	10%	$270
170-339	15%	$255
340+	20%	$240

More information about training units can be found at redhat.com/explore/training_units

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RED HAT SKILLS ASSESSMENT

Not sure which course to take? Check out our new online skills assessment tool. It will help you eliminate the guesswork of choosing training and map out your personalized training path based on your existing skills and desired end goal.

THE TOOL:

- Helps you identify the right training course for your skill set
- Maps out a customized training path
- Sends test results to your email

Take a skills assessment today at: **redhat.com/training/skills_assessment**

Red Hat System Administration I

Core skills for the new Linux system administrator

ON THE PATH
to earning an RHCSA.

RED HAT TRAINING PATHS

Red Hat
System Administration I
(RH124)

Red Hat System Administration I (RH124) is a five-day course designed for IT professionals who are new to Linux and want to rapidly obtain practical Linux administration skills. Students will focus on administration tasks, learn to perform installations, establish network connectivity, manage physical storage, and perform basic security administration. This course builds on students' existing technical knowledge by focusing on GUI-based tools, while still covering key command line concepts.

AUDIENCE

- Microsoft Windows system administrators who need to quickly learn core Red Hat Enterprise Linux proficiencies
- System administrators, network administrators, and other IT professionals who require proficiency performing core tasks in Linux
- Non-Linux IT professionals on the path to becoming full-time Linux system administrators

PREREQUISITES

Previous operating system administration experience is helpful but not required

COURSE CONTENT

- Graphical installation of Linux
- Managing physical storage
- Introduction to the command line
- Learning how to install and configure local components and services
- Establishing network and securing network services
- Managing and securing files
- Administrating users and groups
- Deploying file sharing services

LOCATION	TRAINING TIME	COST‡	TUs
Classroom	5 days	$2,400	8
Remote Classroom	5 days	$2,400	8
Virtual Training	5 days (27.5 hours)	$2,100	7
Onsite	Call 1-866-626-2994		

‡ *Prices subject to change.*

UNITED STATES

AZ	Phoenix	3/7	4/18		6/06	7/25		9/12
CA	Anaheim	3/28			6/13	7/25		9/26
	Fremont			5/2			8/15	
	Los Angeles			5/9			8/22	
	Mountain View		4/18		6/20		8/22	
	San Diego	3/7			6/13			
	San Francisco	3/21		5/16	6/27	7/25	8/29	
CO	Denver		4/18		6/13		8/15	9/12
FL	Fort Lauderdale							9/12
	Orlando		4/11		6/27			
	Tampa		4/25				8/8	
GA	Atlanta	3/28		5/2	6/20		8/8	9/12
IL	Chicago		4/11	5/9	6/6		8/22	9/12
KS	Kansas City	3/14						9/26
MA	Boston	3/14, 3/28	4/11	5/16	6/20		8/1, 8/29	9/12
MD	Columbia	3/7	4/4	5/2, 5/23	6/13	7/18	8/15	9/12
MN	Minneapolis	3/28			6/20			9/12
MO	St Louis	3/21			6/20		8/1	
NC	Charlotte		4/11			7/25		
	Raleigh	3/21	4/11	5/9	6/27	7/25	8/22	
NE	Omaha	3/7			6/27			
NV	Las Vegas		4/4			7/18		
NY	New York	3/14, 3/28	4/25	5/23	6/13	7/25	8/15, 8/29	9/26
OH	Columbus		4/25			7/18		
PA	Philadelphia		4/11	5/23		7/25		9/19
TX	Austin	3/21			6/6		8/8	
	Dallas		4/4	5/16	6/27	7/11		9/19
	Houston		4/4	5/23		7/18		9/12
VA	Norfolk	3/7		5/23				9/19
	Richmond	3/28					8/8	
	Tysons Corner (DC)	3/7, 3/28		5/9	6/6	7/11	8/15, 8/29	9/26
WA	Seattle		4/11	5/23		7/25		9/19

CANADA

AB	Calgary				6/6	7/4		
	Edmonton				6/6	7/4		
BC	Vancouver				6/6	7/4		
NS	Halifax			5/2			8/29	
ON	Ottawa			5/9			8/22	
	Toronto	3/7		5/2		7/25		9/26
QC	Montreal		4/4			7/18		

VIRTUAL TRAINING

	Virtual classroom		4/4	5/16	6/27		8/15	9/26

Red Hat System Administration II with Exam

Building on command line skills for Linux administrators

ON THE PATH
to earning an RHCSA.

Learn more on page 9.

RED HAT TRAINING PATHS
For more information about how this course aligns with your training path, turn to page 4.

Red Hat System Administration II with RHCSA Exam (RH135)

Red Hat System Administration II with RHCSA Exam (RH135) is designed for IT professionals working to become full-time enterprise Linux system administrators. The course is a followup to System Administration I and builds on the foundation of command line skills covered in the first course. At the completion of this course, students will be able to administer and troubleshoot file systems and partitioning, logical volume management, access control, and package management. Students who complete Red Hat System Administration I and II will be fully prepared to take the Red Hat Certified System Administration (RHCSA) exam.

AUDIENCE
IT professionals who have attended Red Hat System Administration I and want the skills to be full-time enterprise Linux administrators or earn RHCSA certifications.

PREREQUISITES
- Red Hat System Administration I
- Confirmation of the correct skill set knowledge can be obtained by passing the online skills assessment at redhat.com/training/skills_assessment

COURSE CONTENT
- Network configuration and troubleshooting
- Managing file systems and logical volumes
- Controlling user and file access
- Installing and managing services and processes
- Essential command line operations
- Troubleshooting

LOCATION	TRAINING TIME	COST‡	TUs
Classroom with Exam	5 days	$2,600	9
Classroom*	4 days	$2,400	8
Remote Classroom*	4 days	$2,400	8
Virtual Training*	5 days (27.5 hours)	$2,100	7
Onsite	Call 1-866-626-2994		

‡ Prices subject to change.
* Course does not include exam. Exam sold separately.

UNITED STATES

	City							
AZ	Phoenix		4/25		6/13		8/1	9/19
CA	Anaheim		4/4				8/1	
	Fremont			5/9			8/22	
	Los Angeles			5/16			8/29	
	Mountain View		4/25		6/27		8/29	
	San Diego				6/20			
	San Francisco			5/23				9/12
CO	Denver	3/7	4/25				8/22	
FL	Fort Lauderdale	3/7						9/19
	Orlando					7/18		
	Tampa			5/16			8/15	
GA	Atlanta	3/21	4/4	5/9	6/27		8/15	
IL	Chicago		4/18		6/13		8/29	9/26
MA	Boston		4/18		6/27		8/8	9/12, 9/19
MD	Columbia	3/28						9/19
MI	Detroit						8/1	
MN	Minneapolis			5/16		7/11		9/19
MO	St Louis						8/8	
NC	Charlotte						8/1	
	Raleigh			5/23		7/11	8/29	
NE	Omaha	3/28				7/18		
NJ	Edison	3/7					8/8	
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CANADA

	City							
AB	Calgary					7/11		
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BC	Vancouver					7/11		
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ON	Ottawa						8/29	
	Toronto			5/9			8/8	
QC	Montreal			5/2			8/15	

VIRTUAL TRAINING

	City							
	Virtual classroom	3/14	4/11	5/23				

RHCSA Rapid Track Course with Exam
Fast track to RHCSA for experienced system administrators

ON THE PATH to earning an RHCSA. Learn more on page 9.

redhat. CERTIFIED SYSTEM ADMINISTRATOR

RED HAT TRAINING PATHS
For more information about how this course aligns with your training path, turn to page 4.

RHCSA Rapid Track Course with Exam (RH200)

The RHCSA Rapid Track course with exam (RH200) is designed for experienced Linux and Unix system administrators who want to become accredited with the RHCSA certification. Students will learn to manage a Linux server, including installation and configuration of local components and services, as well as connections to existing network services. To successfully navigate this accelerated course, students must already have solid command line skills and know how to access man pages for help.

AUDIENCE
- Practiced Linux or Unix system administrators who currently manage Linux servers at the enterprise level
- Skilled Linux system administrators who who wish to earn an RHCSA certification

PREREQUISITES
- 1-3 years of full-time Linux or UNIX administration
- The following skills:
  - Configuring print queues to local and remote printers
  - Managing system software (installing and updating packages with yum)
  - Administering local user and group accounts
  - Managing local, physical storage
- For a comprehensive list of skills required, go to **redhat.com/courses/rh200**
- Confirmation of the correct skill set knowledge can be obtained by passing the online skills assessment at **redhat.com/training/skills_assessment**

COURSE CONTENT
- Managing local storage, including encrypted volumes
- Deploying network services, including VNC, SSH, FTP, and web services
- Securing files with ACLs and network services with the firewall and SELinux
- Managing virtual machines with KVM technology
- Automating installation of Linux using kickstart

LOCATION	TRAINING TIME	COST‡	TUs
Classroom with Exam	5 days	$3,200	11
Classroom*	4 days	$3,000	10
Remote Classroom*	4 days	$3,000	10
Virtual Training*	5 days (27.5 hours)	$2,600	9
Onsite	Call 1-866-626-2994		

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	Toronto	3/14		5/16		7/11	8/15	
QC	Montreal			5/16			8/29	

VIRTUAL TRAINING

	City							
	Virtual classroom	3/21	4/18		6/6	7/25		9/12

Red Hat System Administration III with RHCSA and RHCE exams

Advanced skills for the experienced Linux administrator

ON THE PATH
to earning
an RHCE.
Learn more on
page 9.

redhat CERTIFIED ENGINEER

RED HAT TRAINING PATHS
For more information about how this course aligns with your training path, turn to page 4.

Red Hat
System Administration III
with RHCE Exams
(RH255)

Red Hat System Administration III with RHCSA and RHCE Exam (RH255) is designed for experienced Linux administrators who require networking and security administration skills. This course focuses on automation skills to securely configure, deploy, and manage network services, including DNS, Apache, SMTP, and network file sharing. In addition, there is emphasis on security, including monitoring, packet filtering, access controls, and SELinux. This course includes the RHCSA and the RHCE exams.

AUDIENCE
- Senior Linux system administrators who require networking and security administration skills
- Linux IT professionals who currently have RHCT/RHCSA certification and are interested in earning an RHCE certification
- Linux IT professionals who can demonstrate the competencies needed to earn an RHCT/RHCSA, but have not passed the RHCSA exam provided with the Red Hat System Administration II course

PREREQUISITES
- RHCSA Rapid Track Course (RH200) or Red Hat System Administration I and II
- Equivalent experience to the RHCSA Rapid Track Course
- Skills required to earn an RHCT/RHCSA certification
- Confirmation of the correct skill set knowledge can be obtained by passing the online skills assessment at redhat.com/training/skills_assessment

COURSE CONTENT
- Enhancing user security
- Disk management with iSCSI
- System and network activity monitoring
- Network management and packet filtering
- Software management
- Web service management
- File sharing across platforms
- Basic SMTP management

LOCATION	TRAINING TIME	COST‡	TUs
Classroom with Exams	5 days	$2,800	10
Classroom†	4 days	$2,400	8
Remote Classroom†	4 days	$2,400	8
Virtual Training†	5 days (27.5 hours)	$2,100	7
Onsite	Call 1-866-626-2994		

‡ Prices subject to change.
† Course does not include exams. Exams sold separately.

	UNITED STATES							
CA	Anaheim		4/18				8/8	
	Fremont			5/23				9/5
	Los Angeles	3/4			6/20			9/19
	Mountain View			5/9			8/1	9/12
	San Diego		4/4			7/18		
	San Francisco		4/25				8/8	
CO	Denver	3/28			6/27		8/29	
FL	Tampa	3/28			6/6			9/19
GA	Atlanta		4/18		6/6	7/18		9/12
IL	Chicago	3/7		5/23		7/11		9/12
MA	Boston			5/2	6/6	7/25	8/15	9/19, 9/26
MD	Columbia		4/11		6/27	7/25		
MN	Minneapolis				6/6	7/18		
MO	St Louis		4/11				8/15	
NC	Charlotte				6/6		8/25	
	Raleigh		4/4		6/13	7/18		9/12
NE	Omaha		4/11			7/25		
NY	New York	3/7		5/9	6/27	7/11	8/29	
OH	Columbus	3/14		5/30			8/8	
PA	Philadelphia			5/2			8/15	
TX	Austin	3/7		5/23			8/22	
	Dallas	3/7, 3/21			6/6	7/18	8/29	
	Houston	3/14	4/25		6/20		8/8	
VA	Tysons Corner (DC)		4/18		6/20	7/25	8/29	
WA	Seattle	3/21		5/9	6/27			
WI	Milwaukee	3/14						
	CANADA							
AB	Calgary			5/2			8/15	
	Edmonton			5/2			8/15	
BC	Vancouver			5/2			8/15	
NS	Halifax	3/14				7/4		
ON	Ottawa	3/21			6/20			
	Toronto	3/21			6/6			9/5
	VIRTUAL TRAINING							
	Virtual classroom			5/2	6/13	7/18	8/29	

Red Hat Enterprise Linux for Solaris Administrators

NOTES: This course is an excellent foundation for senior Solaris administrators to take before enrolling in the RHCE Rapid Track Course (RH300).

All participants in the Red Hat Enterprise Linux for Solaris Administrators course receive a free, printed Solaris-to-Linux quick reference guide.

RED HAT TRAINING PATHS

For more information about how this course aligns with your training path, turn to page 4.

ed Hat Enterprise Linux
or Solaris Administrators
(RH290)

UNITED STATES

CA	San Francisco	5/30, 7/11, 9/5, 9/26
GA	Atlanta	5/30, 9/5
FL	Tampa	7/18
NC	Raleigh	9/5
NJ	Edison	8/15
TX	Dallas	5/30, 8/22
	Houston	7/4
WA	Seattle	7/4

CANADA

ON	Toronto	4/18, 7/25

VIRTUAL TRAINING

	Virtual Classroom	3/21

Red Hat Enterprise Linux for Solaris Administrators (RH290) quickly and efficiently covers many of the hands-on, practical skills needed when transitioning from Solaris to Red Hat Enterprise Linux. It focuses on the differences between the two operating systems, covering Red Hat Enterprise Linux equivalents to Solaris-specific technologies like applying software patches, automated deployment with Jumpstart, and advanced filesystem features. In addition, the course demonstrates how to use RPM, yum, Red Hat Network (RHN), and Kickstart to manage your environment.

AUDIENCE

- Solaris administrators who are contemplating a migration or are migrating to Red Hat Enterprise Linux and want to understand the difference in skillset that will be required
- Solaris administrators who want to quickly expand their skillset to include Red Hat Enterprise Linux

PREREQUISITES

- Experience in Solaris at the power user, network operations, or system administrator level
- Two years of Solaris experience installing server operating system and software, troubleshooting servers, and configuring and securing servers and services

COURSE CONTENT

- Find documentation and help
- Control the boot process, kernel modules, and initialization
- Manage software lifecycle with yum, RHN, and rpm
- Create and modify partitions, software RAID and LVM volumes
- Connect to and authenticate from network directory services like NIS and LDAP
- Secure access to systems and services
- Collect system information
- Perform automated installations using Kickstart
- Save kernel crash dumps to disk and over the network

LOCATION	TRAINING TIME	COST‡	TUs
Classroom	2 days	$1,249	5
Virtual Training	3 days, 16.5 hours	$1,249	5
Onsite	Call 1–866-626-2994		

‡ *Prices subject to change.*

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ALL GAIN (NO PAIN)

Better TCO and better performance at a lower cost? Check.

Everyday, organizations are reducing costs, scaling their IT environments, and improving the performance of their applications by migrating to Red Hat® Enterprise Linux®.

Let Red Hat show you how.

MIGRATE TO RED HAT ENTERPRISE LINUX:
redhat.com/migrate

RHCE Rapid Track Course with RHCSA and RHCE Exams

Fast track to RHCE certification for senior Linux system administrators

ON THE PATH to earning an RHCE.

Learn more on page 9.

RED HAT TRAINING PATHS
For more information about how this course aligns with your training path, turn to page 4.

RHCE Rapid Track Course with RHCSA and RHCE Exams (RH300)

The RHCE Rapid Track Course with RHCSA and RHCE Exams (RH300) is designed for senior Linux system administrators who want to validate their competencies by earning the RHCE credential. This is a demanding, fast-paced review course that combines the RHCSA Fast Track Course (RH199) and System Administration III (RH254) courses, normally eight days of training, into a single, four-day course. By the end of this course, the students will have been exposed to all the intermediate and advanced competencies tested by the RHCSA and RHCE exams.

AUDIENCE
- Experienced Linux system administrators with a minimum of three years of Linux experience who want a fast-track solution to earn an RHCE certification
- Experienced Solaris system administrators who have completed the Red Hat Enterprise Linux for Solaris Administrators (RH290) course

PREREQUISITES
- Students must meet the requirements for attending Red Hat System Administration I, II, and III courses
- Students must have the same skill set as an RHCT/RHCSA
- Confirmation of the correct skill set knowledge can be obtained by passing the online skills assessment at **redhat.com/training/skills_assessment**

COURSE CONTENT
- Package, network, and storage management
- Account and authentication management
- Installation, Kickstart, and virtualization
- SELinux and firewall management
- Web and email service
- Network file sharing services
- SSH and VNC services

LOCATION	TRAINING TIME	COST‡	TUs
Classroom with Exams	5 days	$3,600	12
RH299 Classroom†	4 days	$3,200	11
Remote Classroom†	4 days	$3,200	11
Virtual Training†	5 days (27.5 hours)	$2,800	10
Onsite	Call 1-866-626-2994		

‡ Prices subject to change.
† Course does not include exams. Exams sold separately.

UNITED STATES

AZ	Phoenix			5/9	6/27		8/15	
CA	Anaheim	3/7		5/2	6/27		8/22	
	Fremont		4/4		6/6	7/18		9/12
	Mountain View			5/16			8/15	
	Sacramento	3/7						
	San Diego		4/18					9/12
	San Francisco	3/14			6/20			
CO	Denver		4/11		6/6	7/25		9/26
FL	Fort Lauderdale						8/8	
	Jacksonville	3/21						
	Orlando				6/6			9/19
	Tampa		4/11		6/20			9/26
GA	Atlanta	3/7	4/25		6/13	7/25		9/19
IL	Chicago	3/14		5/2	6/20	7/18	8/1	9/26
IN	Indianapolis	3/28				7/11		
MA	Boston	3/7	4/11	5/23		7/18, 7/25	8/29	
MD	Columbia	3/21	4/18	5/16	6/20		8/1, 8/29	
MI	Detroit	3/14			6/26			9/12
MN	Minneapolis			5/2			8/29	
MO	Kansas City			5/9			8/22	
	St Louis			5/23		7/11		9/19
NC	Charlotte	3/7			6/20			9/26
	Raleigh	3/7	4/18		6/6		8/1	9/26
NE	Omaha			5/16			8/22	
NJ	Edison				6/13			9/26
NV	Las Vegas	3/14			6/20			
NY	New York		4/4	5/9		7/18	8/1, 8/8	9/19
OH	Columbus				6/6		8/15	
PA	Philadelphia	3/21			6/20			
TX	Austin	3/14			6/13			9/26
	Dallas	3/28		5/9	6/20		8/29	9/26
	Houston	3/21		5/16	6/27		8/22	
VA	Norfolk			5/2			8/15	
	Richmond				6/13			
	Tysons Corner (DC)		4/25	5/23	6/27		8/8	9/19
WA	Seattle	3/28		5/16		7/11	8/29	

CANADA

AB	Calgary				6/20			9/12
	Edmonton				6/20			9/12
BC	Vancouver				6/20			9/19
NS	Halifax		4/4				8/8	
ON	Ottawa		4/11			7/25		
	Toronto				6/13			9/12
QC	Montreal	3/21			6/6			9/12

VIRTUAL TRAINING

	Virtual classroom	3/28		5/9	6/20		8/1	9/19

Register for this course: 1-866-626-2994 or redhat.com/training

Register for this course: 1-866-626-2994 or redhat.com/training

Red Hat Enterprise Virtualization

The skills required to deploy and manage virtual environments

ON THE PATH
to earning
an RHCVA,
a Certificate
of Expertise,
RHCDS, and
RHCA.

redhat. CERTIFIED VIRTUALIZATION ADMINISTRATOR

Learn more on
pages 9-11.

redhat. CERTIFICATES OF EXPERTISE

Red Hat Enterprise Virtualization (RH318) course explores the virtualization features of Red Hat Enterprise Linux with the advanced Red Hat Enterprise Virtualization platform. Students acquire the skills and knowledge to effectively create, deploy, manage, and migrate Linux and Microsoft Windows virtual machines hosted on either Red Hat Enterprise Virtualization Hypervisor or Red Hat Enterprise Linux servers' dedicated nodes using Red Hat Enterprise Virtualization Manager.

AUDIENCE
- Experienced Linux system administrators responsible for managing enterprise servers
- IT professionals interested in earning their Red Hat Certified Vitalization Administrator (RHCVA) certifications

PREREQUISITES
- IT professionals who have earned an Red Hat Certified System Administrator (RHCSA) certification or maintain the equivalent experience with Linux
- System administration experience on Microsoft Windows operating systems is beneficial but not necessary for this course

COURSE CONTENT
- Red Hat Enterprise Linux virtualization with KVM overview
- Overview of Red Hat Enterprise Virtualization platform
- Creating and configuring datacenters, host clusters and Red Hat Enterprise Virtualization Manager
- Installing and upgrading Red Hat Enterprise Virtualization Hypervisor
- Configure data, ISO, and export storage domains using NFS and iSCSI
- Create and manage virtual servers and virtual desktops
- Create and manage snapshots and templates
- Create and manage users and desktop pools
- Accessing the user portal
- Exporting/importing virtual machines
- Using the search bar and tags
- Using the monitoring tools and log collector

UNITED STATES

CA	Mountain View	4/4, 7/18
CO	Denver	5/9, 8/1
GA	Atlanta	4/25, 9/26
IL	Chicago	3/28, 5/16
MA	Boston	5/2, 8/15
NC	Raleigh	3/21, 4/18, 6/20, 8/1
NY	New York	4/11, 7/25
TX	Dallas	3/14, 6/13, 9/26
VA	Tysons Corner (DC)	3/7, 6/6, 9/19

LOCATION	TRAINING TIME	COST‡	TUs
Classroom*	4 days	$2,898	10
Onsite	Call 1-866-626-2994		

‡ Prices subject to change.
* RHCVA exam (EX318) not included.

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READY FOR THE NEXT STEP IN VIRTUALIZATION?

RED HAT – THE PROVEN CHOICE FOR LINUX – OFFERS MORE FOR VIRTUALIZATION.

Red Hat Enterprise Virtualization builds on the platform trusted by thousands of organizations on millions of systems around the world for mission-critical workloads.

Red Hat Enterprise Linux workloads run best on Red Hat Enterprise Virtualization.

redhat.com/promo/rhelonrhev

Register for this course: 1-866-626-2994 or redhat.com/training

Red Hat Enterprise Security: Network Services

Security for the most commonly deployed services

Red Hat Enterprise Security: Network Services (RHS333) is an intensive course that equips senior system administrators and security professionals with the skills and knowledge required to harden systems against both internal and external attacks. This class advances beyond the essential security coverage offered in the RHCE curriculum and delves more deeply into the security features, capabilities, and risks associated with the most commonly deployed services.

AUDIENCE

- Experienced Linux system administrators responsible for the overall security of their systems and networked services
- Experienced Linux system administrators tasked with security on other operating systems but who now want to perform those tasks on a Red Hat Linux system
- RHCEs interested in earning Red Hat Certificates of Expertise or Red Hat Certified Security Specialist (RHCSS) or Red Hat Certified Architect (RHCA) certifications

PREREQUISITES

- Attendees should already know the essential elements of how to configure the services covered, as this course will be focusing on more advanced topics
- Red Hat Certified Engineer (RHCE) certification or equivalent experience
- Students without an RHCE certification are encouraged to do a skills assessment online at redhat.com/training/skills_assessment

COURSE CONTENT

- Mastering basic service security
- Understanding cryptography
- Securing BIND and DNS
- Hardening RPC services
- Using Kerberos for centrally managed user authentication
- Improving NFS security with Kerberos and NFSv4
- Advance uses of Secure Shell
- Building a secure e-mail infrastructure
- Securing FTP and Apache HTTPD services
- Basics of intrusion detection and response

UNITED STATES

CA	Mountain View	3/14, 4/11, 7/25
	San Francisco	3/7
GA	Atlanta	3/21
IL	Chicago	3/7
VA	Tysons Corner (DC)	6/27

VIRTUAL TRAINING

	Virtual classroom	5/23, 9/26

LOCATION	TRAINING TIME	COST‡	TUs
Classroom*	4 days	$2,598	9
Virtual*	5 days, 27.5 hours	$1,948	7
Onsite	Call 1-866-626-2994		

‡ *Prices subject to change.*
* *EX333 Expertise Exam not included.*

Register for this course: 1-866-626-2994 or redhat.com/training

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Red Hat Enterprise SELinux Policy Administration

Security-enhanced Linux (SELinux) is a powerful, kernel-level security layer that provides fine-grained control over which users and processes may access what resources and execute which programs on a system. Red Hat Enterprise SELinux Policy Administration (RHS429) introduces senior system administrators, security administrators, and application programmers to SELinux policy writing. Students will learn how SELinux works and how to manage, write, compile, and debug a SELinux policy. This class culminates in a major project to analyze, determine the security needs of, and design and implement a set of net new policies for a service previously unprotected by SELinux.

AUDIENCE

- Experienced Linux system administrators responsible for Mandatory Access Control-based (MAC) security, or who want to harden their existing Linux system or networked services security.
- RHCEs interested in earning a Red Hat Certificate of Expertise or a Red Hat Certified Security Specialist (RHCSS) certification

PREREQUISITES

- RHCE certification or equivalent experience
- Students without an RHCE certification are encouraged to do a skills assessment online at redhat.com/training/skills_assessment

COURSE CONTENT

- Introduction to SELinux
- Using SELinux
- The Red Hat targeted policy
- Introduction to policies
- Policy utilities
- User and role security
- Anatomy of a policy
- Manipulating policies

LOCATION	TRAINING TIME	COST‡	TUs
Classroom*	4 days	$2,898	10
Onsite	Call 1-866-626-2994		

‡ *Prices subject to change.*
* *EX429 Expertise Exam not included.*

UNITED STATES

CA	San Francisco	3/21
NC	Raleigh	4/4, 7/11
VA	Tysons Corner (DC)	5/30, 9/5

Register for this course: 1-866-626-2994 or redhat.com/training

Red Hat Enterprise Deployment and Systems Management

Red Hat Enterprise Deployment and Systems Management (RH401) is a four-day, lab-based course that explores the concepts and methods necessary for efficient deployment and management of Red Hat Enterprise Linux systems. Central to the course is training on the use of the Red Hat Network Satellite Server for deployment and provisioning of Red Hat Enterprise Linux systems. By the end of this course, students will have built and configured their own Red Hat Network Satellite Server for use by a small team of system administrators, created and deployed custom RPM packages, and used Subversion version control to manage changes to scripts.

AUDIENCE
- Experienced Linux system administrators responsible for the planning, deployment, and management of more than one physical or virtualized server
- RHCEs interested in earning Red Hat Certificates of Expertise or Red Hat Certified Datacenter Specialist (RHCDS) or a Red Hat Certified Architect (RHCA) certifications

PREREQUISITES
- An RHCE certification or equivalent experience
- Students without an RHCE certification are encouraged to do a skills assessment online at **redhat.com/training/ skills_assessment**

COURSE CONTENT
- Installing Red Hat Network (RHN) Satellite Server
- Managing changes with revision control software
- Construction of custom RPM packages
- Red Hat Network organizations, users, and roles
- Managing software with RHN–software channels and errata
- Reporting and automation with RHN programming API
- Deploying configuration files using Red Hat Network
- Bare-metal provisioning with PXE
- RHN Satellite Server system administration

UNITED STATES

CA	Mountain View	3/21, 6/13, 9/26
CO	Denver	5/16
GA	Atlanta	3/14, 5/9, 8/29
IL	Chicago	3/21, 4/4, 7/18
MA	Boston	3/7, 3/28, 7/25
NC	Raleigh	5/2, 8/15
NY	New York	5/23
TX	Dallas	4/18, 8/1
VA	Tysons Corner (DC)	3/14, 6/20

CANADA

ON	Toronto	7/11

LOCATION	TRAINING TIME	COST‡	TUs
Classroom*	4 days	$2,898	10
Onsite	Call 1–866–626–2994		

‡ Prices subject to change.
* EX401 Expertise Exam not included.

RED HAT NETWORK SATELLITE
A Way to Succeed at Life Cycle Management

With intense pressure today to cut costs, comply with regulatory mandates and serve business more effectively, life cycle management with RHN Satellite can help by reducing complexity and increasing operational effeciency.

For more information, visit **redhat.com/red_hat_network**

Register for this course: 1–866–626–2994 or redhat.com/training

Enterprise Directory Services and Authentication

Red Hat Enterprise Directory Services and Authentication (RH423) course is designed to train senior system administrators in the skills required to manage and deploy the Red Hat Directory Server on and for Red Hat Enterprise Linux systems. This course also covers cross-platform integration of directory services in order to provide authentication or information services across the enterprise. In addition, students will gain an understanding of the basic concepts, configuration, and management of LDAP-based services.

AUDIENCE

- Experienced Linux system administrators responsible for user account information and secured enterprise authentication mechanisms of one or more Linux systems
- System administrators who have configured directory services and authentication on other operating systems but now want to perform those tasks on a Linux system
- Experienced system administrators wanting to integrate directory service and authentication mechanisms across multiple operating systems
- RHCEs interested in earning Red Hat Certificates of Expertise or Red Hat Certified Datacenter Specialist (RHCDS) or Red Hat Certified Security Specialist (RHCSS) certifications

PREREQUISITE

- An RHCE certification or equivalent experience
- Students without an RHCE certification are encouraged to do a skills assessment online at redhat.com/training/skills_assessment

COURSE CONTENT

- Understanding basic LDAP concepts
- Configuration and management of Red Hat Directory Server
- Managing user authentication with PAM and glibc NSS
- Using Kerberos and LDAP to centrally manage user authentication
- Using LDAP referrals and replication for distributed, highly available directory server performance
- Exploring options for integration with Microsoft Active Directory authentication

UNITED STATES

CA	Mountain View	3/7
MA	Boston	3/21, 5/16, 9/26
MD	Columbia	3/14
NC	Raleigh	6/27
VA	Tysons Corner (DC)	3/28, 8/15

VIRTUAL TRAINING

	Virtual classroom	5/2, 7/18

LOCATION	TRAINING TIME	COST‡	TUs
Classroom*	4 days	$2,898	10
Virtual*	5 days, 27.5 hours	$2,173	8
Onsite	Call 1-866-626-2994		

‡ Prices subject to change.
* EX423 Expertise Exam not included.

Red Hat Enterprise Clustering and Storage Management

Red Hat Enterprise Clustering and Storage Management (RH436) provides intensive, hands-on experience with storage management, Red Hat Cluster Suite, and the shared storage technology delivered by Red Hat Global File System (GFS). Created for senior Linux system administrators, this four-day course has a strong emphasis on lab-based activities using enterprise-class storage, server, and auxiliary equipment. At the end of the course, students will have learned to deploy and manage shared storage and server clusters that provide highly available network services to a mission-critical enterprise environment.

AUDIENCE

- Experienced Linux system administrators responsible for managing shared storage across one or more Linux systems
- Experienced Linux system administrators responsible for maintaining a high availability service using cluster technology
- RHCEs interested in earning Red Hat Certificates of Expertise or Red Hat Certified Datacenter Specialist (RHCDS) or Red Hat Certified Architect (RHCA) certifications

PREREQUISITE

- RHCE certification or equivalent experience
- Students without an RHCE certification are encouraged to do a skills assessment online at redhat.com/training/skills_assessment

COURSE CONTENT

- Review of Red Hat Enterprise Clustering and storage management technologies
- Linux dynamic device management
- iSCSI
- Advanced software RAID
- Device mapper and multipathing
- Cluster technology and suite overview
- Quorum and the cluster manager
- Fencing and failover
- Quorum disk
- Service manager
- Global File System (GFS)

LOCATION	TRAINING TIME	COST‡	TUs
Classroom*	4 days	$3,998	14
Onsite	Call 1-866-626-2994		

‡ Prices subject to change.
* EX436 Expertise Exam not included.

UNITED STATES

CA	Freemont	3/21
	Mountain View	5/30, 9/5
	San Francisco	4/4, 7/18
CO	Greenwood Village	3/14
GA	Atlanta	5/23, 8/29
IL	Chicago	3/21, 6/27
MA	Boston	3/14, 6/13, 7/11
NC	Raleigh	4/11, 8/8
NY	New York	5/16, 8/22
TX	Austin	4/4, 7/18
	Dallas	4/25, 8/8
	Houston	3/28, 7/11
VA	Tyson's Corner (DC)	5/9, 8/22
WA	Seattle	4/4, 7/18

CANADA

ON	Toronto	5/30, 9/26

Red Hat Enterprise System Monitoring and Performance Tuning

Red Hat Linux Programming

ON THE PATH to earning a Certificate of Expertise and RHCA.

Red Hat Enterprise System Monitoring and Performance Tuning (RH442) is designed to teach senior Linux system administrators the methodology of performance tuning and capacity planning for Red Hat Enterprise Linux. This course discusses system architecture with an emphasis on understanding the implications of system architecture on system performance, methods for testing the effects of performance adjustments, open source benchmarking utilities, methods for analyzing system and networking performance, and tuning configurations for specific application loads.

AUDIENCE
- Experienced Linux system administrators responsible for maximizing resource utilization through performance tuning
- RHCEs interested in earning Red Hat Certificates of Expertise or Red Hat Certified Datacenter Specialist (RHCDS) or Red Hat Certified Architect (RHCA) certifications

PREREQUISITE
- RHCE certification or equivalent experience
- Students without an RHCE certification are encouraged to do a skills assessment online at **redhat.com/training/skills_assessment**

COURSE CONTENT
- Elements of monitoring and tuning
- Simple network monitoring (SNMP)
- Graphical reporting
- Kernel-level profiling
- Queuing theory
- Compensating for physical disk characteristics
- Reducing disk visit count
- Processes and the scheduler
- Kernel timing and process latency
- Memory addressing and allocation
- Memory caches
- Memory reclamation
- Essential network tuning

The Red Hat Linux Programming (RHD251) course rapidly trains programmers to develop applications and programs on Red Hat Enterprise Linux. Over the span of five days, students are provided hands-on training, concepts, and demonstrations with emphasis on realistic labs and programming exercises.

AUDIENCE
- Experienced C programmers who want to learn key skills for creating applications and programs on Red Hat Enterprise Linux
- Windows and UNIX programmers migrating their software to Linux

PREREQUISITES
- Experience in C programming
- Red Hat Linux System Administration (RH135 or RH200), or equivalent UNIX or Linux workstation user skills for development
- Shell scripting in a UNIX or Linux environment
- Experience with text editors (vi, emacs)

COURSE CONTENT
- GNU compiler collection
- Building programs with make
- System calls
- Program arguments
- Shared, static, and dynamic libraries
- Time functions
- Process control
- Debugging
- Memory operations
- Inter-process communication
- Signals
- POSIX threads
- File operations
- Network communication
- Working with the Linux community

UNITED STATES

CA	Mountain View	3/28, 7/11
	San Francisco	3/14, 6/27
CO	Denver	5/23, 7/18
GA	Atlanta	4/18, 8/1
IL	Chicago	3/14, 5/2, 8/15
MA	Boston	5/9, 8/22
MD	Columbia	5/30, 9/5
NY	New York	3/7, 6/6, 9/19
OH	Columbus	6/20
TX	Austin	5/16, 8/29
	Dallas	4/11, 7/25
VA	Tysons Corner (DC)	3/21, 6/13, 9/26
WA	Seattle	6/6, 9/12

CANADA

ON	Toronto	4/4, 7/18

VIRTUAL TRAINING

	Virtual Classroom	4/25, 8/8

LOCATION	TRAINING TIME	COST‡	TUs
Classroom*	4 days	$2,898	10
Virtual*	5 days, 27.5 hours	$2,173	8
Onsite	Call 1-866-626-2994		

‡ *Prices subject to change.*
* *EX442 Expertise Exam not included.*

LOCATION	TRAINING TIME	COST‡	TUs
Classroom	5 days	$2,898	10
Onsite	Call 1-866-626-2994		

‡ *Prices subject to change.*

UNITED STATES

MA	Boston	6/6, 8/29
VA	Tysons Corner (DC)	5/2, 7/11

Register for this course: **1-866-626-2994** or **redhat.com/training**

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Red Hat Enterprise Linux Kernel Internals

Red Hat Enterprise Linux Kernel Internals (RHD361) is a hands-on course providing experienced developers an intensive, low-level examination of the Linux kernel architecture. Topics include kernel compilation, debugging tools and techniques, and internal kernel APIs, including synchronization, process management, and memory management. These topics provide a solid understanding of the kernel's architecture, providing a useful base from which more specialized topics, like those presented in Red Hat Enterprise System Monitoring and Performance Tuning (RH442) or Red Hat Enterprise Linux Kernel Device Drivers (RHD362) can be addressed.

AUDIENCE
Experienced developers who want to gain a thorough understanding of the Linux kernel architecture

PREREQUISITES
- Experience in C programming
- Knowledge of systems programming in a UNIX or Linux environment
- Register-level hardware programming knowledge is recommended but not required
- Familiarity with basic tools, such as vi, Emacs, and file utilities
- Familiarity with UNIX development tools such as gcc and make

COURSE CONTENT
- User and kernel mode
- Kernel compilation
- Kernel initialization
- Kernel modules
- Introduction to device drivers
- Kernel API overview
- Kernel debugging
- SystemTap
- Process management
- Scheduling
- Real time and Red Hat Enterprise Linux RT
- Kernel threads
- Timing
- Interrupts
- Synchronization
- Memory
- Working with the Linux community

UNITED STATES

MA	Boston	6/20, 9/12
MD	Columbia	3/7
NC	Raleigh	3/7
VA	Tysons Corner (DC)	4/4, 7/18

LOCATION	TRAINING TIME	COST‡	TUs
Classroom	5 days	$2,898	10
Onsite	Call 1-866-626-2994		

‡ *Prices subject to change.*

Red Hat Enterprise Linux Kernel Device Drivers

Red Hat Enterprise Linux Kernel Device Drivers (RHD362) teaches experienced C programmers already familiar with the Linux kernel architecture the skills and strategies they need to develop device drivers. The course covers device driver models (including character, block, and network device drivers); device interaction (including port I/O, memory mapped I/O, interrupt handling, and DMA transfers); managing PCI and USB devices; strategies for deferring activity using tasklets and work queues; device registration using the Unified Device model and the sysfs filesystem; and process interaction, including basic file operations, polling, and wait queues.

AUDIENCE
Experienced C programmers with a good understanding of the Linux kernel who want to learn how to develop device drivers for Linux systems

PREREQUISITE
- Experience in C programming
- Red Hat Enterprise Linux Kernel Internals (RHD361) or equivalent experience

COURSE CONTENT
- Device driver models
- Device driver registration
- The Unified Device Model and the sysfs filesystem
- Character device drivers and file operations
- Interrupt handling
- Deferring activity with tasklets
- Deferring activity with work queues
- Multiplexed I/O and polling
- Wait queues
- Interacting with devices using port I/O
- Interacting with devices using memory mapped I/O
- Userspace device drivers
- Managing DMA transfers
- PCI drivers
- USB drivers
- Introduction to network device drivers
- Introduction to block device drivers
- I/O scheduling

LOCATION	TRAINING TIME	COST‡	TUs
Classroom	5 days	$2,898	10
Onsite	Call 1-866-626-2994		

‡ *Prices subject to change.*

UNITED STATES

MA	Boston	6/27, 9/19
MD	Columbia	3/21
NC	Raleigh	3/14
VA	Tysons Corner (DC)	4/11, 7/25

UPCOMING WEBINARS FROM RED HAT

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- Cloud Computing: Evolution Not Revolution
- Get the Most Out of IT by Virtualizing with Red Hat
- Build Once, Update On-Demand: Adapt Your Applications to Volatile Business Environments
- Migrating Oracle Databases from UNIX to Red Hat Enterprise Linux

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Linux Troubleshooting Techniques and Tools

Techniques for troubleshooting a Linux system

Troubleshooting is both an art and a science. An instinct and a technique. In Linux Troubleshooting Techniques and Tools (RH142), system administrators will learn techniques for troubleshooting a Linux system and how to use the troubleshooting tools available on Red Hat Enterprise Linux. This course is a four-day, heavily lab-oriented class designed to help learn or improve troubleshooting skills. Students will gain troubleshooting experience by debugging live systems.

AUDIENCE
Linux system administrators who understand how to install and configure a Red Hat Enterprise Linux system and who wish to deepen their understanding of troubleshooting on Linux

PREREQUISITES
- RHCSA certification holder or equivalent experience
- System administration knowledge under Red Hat Enterprise Linux, including:
  - Installation of the system and configuration of services
  - Basic system monitoring (using ps and top, and perhaps meminfo and the /proc filesystem)
  - Filesystem management (using fdisk and mkfs)
  - Basic troubleshooting (including managing log files and perhaps the use of hardware probing tools such as ethtool and lspci)

COURSE CONTENT
- Introduction to troubleshooting techniques
- Troubleshooting boot issues: GRUB, rescue CDs, advanced filesystem and RAID/LVM volumes
- Listing and testing hardware and diagnosing issues
- Identifying application performance issues
- Diagnosing, configuration and testing network configuration problems
- Working with and not against security: SELinux, SSL, and authentication
- Making the most of Red Hat support resources

LOCATION	TRAINING TIME	COST‡	TUs
Classroom	4 days	$2,698	9
Virtual	5 days, 27.5 hours	$1,948	7
Onsite	Call 1-866-626-2994		

‡ Prices subject to change.

UNITED STATES		
CA	Mountain View	6/6, 9/19
	San Francisco	3/7
GA	Atlanta	5/16, 7/4
IL	Chicago	5/30, 9/5
MA	Boston	7/4
NC	Raleigh	8/8
PA	Philadelphia	3/7
TX	Dallas	5/2, 8/15
	Houston	5/30, 9/5
VA	Tysons Corner (DC)	3/21, 4/25, 8/8
WA	Seattle	5/30

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MAY 4-6, 2011
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BOSTON, MA

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