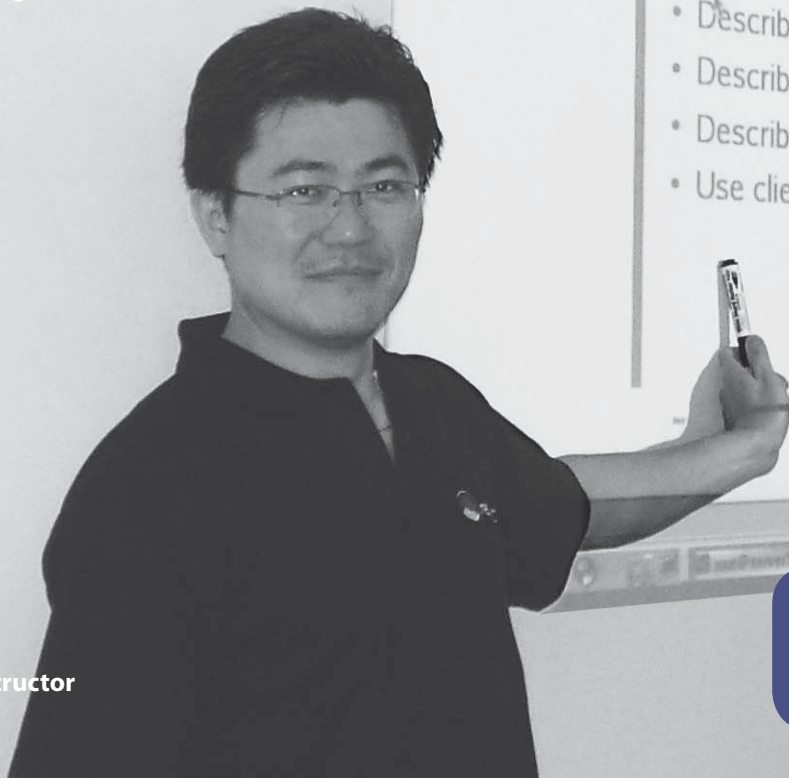


RED HAT TRAINING AND CERTIFICATION

Course Catalog 2006/2007
Asia Pacific



Objectives

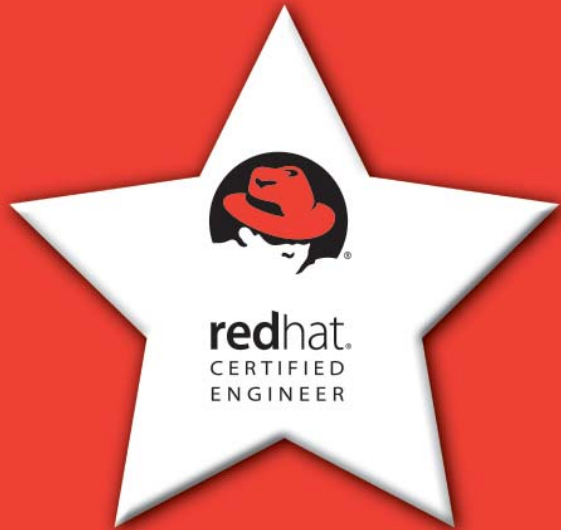
- Explain Network File Sharing
- Describe the NFS service
- Describe the FTP service
- Describe the SMB/CIFS service
- Use client tools with each service

Ben Wu
Red Hat Instructor

**RHCE RATED THE
NUMBER ONE
CERTIFICATION**



GET CERTIFIED ON THE NUMBER ONE CERTIFICATION



Certcities.com ranks Red Hat Certified Engineer (RHCE) as the most influential in 2006 - the certification that will grow the fastest and show the true future of IT certification. Well known for the quality of its hands-on lab exams, a Red Hat certification carries great respect in the market place.

And as Linux gains momentum in governments and enterprises worldwide, the demand for Linux professionals is on the rise. So if you're thinking of getting yourself that Linux certification, why not check out Red Hat's free online preassessment test for a start?

Visit www.apac.redhat.com/training/rhceno1 today.

RED HAT TRAINING AND CERTIFICATION

course catalog volume 2

Asia Pacific



Cover: Ben Wu is the first Red Hat instructor in the Asia Pacific region who has earned the highly acclaimed RHCA (Red Hat Certified Architect). An Australian resident since 1999, Ben completed his Masters degree in Information Technology at Queensland University of Technology. He joined Red Hat in 2002 and has been a Red Hat certified instructor and professional service consultant for the past 2 years.

"The overseas training assignments are the best part of my job, as I enjoy learning about different cultures and meeting new people. I appreciate that my RHCE certification has provided me with these wonderful job opportunities at Red Hat. Now with my RHCA plus hands-on experience from enterprise projects, I aspire to reach greater heights in my Red Hat teaching career. Getting my RHCA was definitely no easy task, but certainly worth every effort!" said Ben.

Want to be a star? If you have a Red Hat certification, you could be the next Training Catalog cover model. Submit a picture, short bio, and a couple of paragraphs detailing how Red Hat training has helped your career and/or your organization, and you could be a Linux legend. Submit information to training-apac@redhat.com, but don't blame us if the paparazi becomes a problem!

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TEN THINGS YOU SHOULD KNOW ABOUT RED HAT TRAINING

1. Industry-acclaimed as the best in Linux.
2. Solid track record: 150,000+ students since 1999.
3. Hands-on training: Students learn by doing.
4. RHCT, RHCE, RHCA, RHCSS: Performance-based certifications that matter.
5. The only Linux pre-assessment tests.
6. All instructors are RHCEs.
7. All skill levels, introduction to enterprise architect.
8. Always up-to-date and accurate.
9. Classes in 133+ cities across Asia Pacific, 238+ worldwide.
10. No other Linux training program comes close. Period.

WAYS TO TRAIN

OPEN ENROLLMENT

Open enrollment courses are offered continually in 25 locations across Asia Pacific and 100+ locations worldwide. Red Hat courses are performance-based -- students have access to at least one dedicated system, and in some courses, as many as five. Instructors are all experienced Red Hat Certified Engineers (RHCEs) who are intimately familiar with the course curriculum.

Course schedules are available at <http://www.apac.redhat.com/training/service/dates.php3>

ONSITE TRAINING

Onsite training is delivered by Red Hat at your facility for teams of 10 to 12 people per class. Red Hat's technical staff will assist your technical staff prior to arrival to ensure the training venue is prepared to run Red Hat Enterprise Linux, Red Hat courses, and/or Red Hat certification exams.

Onsites are a great way to train large groups at once. Open enrollment can be leveraged later for incremental training.



RED HAT TRAINING UNITS

If you need Red Hat training but are uncertain when or where you'll train, training units are the answer. T.U.s act as credits that can be applied to any open enrollment course. A 10-pack of training units can be redeemed for most Red Hat courses including those on the popular Red Hat Certified Engineer (RHCE) track.

For more information including a full T.U. redemption chart, visit www.apac.redhat.com/training/trainingunits

CERTIFICATION TRACKS

Red Hat certifications are indisputably regarded as the best in Linux, and perhaps, according to some, in all of IT. Taught entirely by experienced Red Hat experts, our certification programs measure competency on actual live systems and are in great demand by employers and IT professionals alike.

Choosing the right certification depends on your background and goals. Whether you have advanced, minimal, or no UNIX or Linux experience whatsoever, Red Hat Training has a training and certification path that is right for you.



Red Hat Certified Technician (RHCT)

Now entering its third year, Red Hat Certified Technician is the fastest-growing credential in all of Linux. RHCT is the best first step in establishing Linux credentials and is an ideal initial certification for those transitioning from non-UNIX/ Linux environments.



Red Hat Certified Engineer (RHCE)

Red Hat Certified Engineer began in 1999 and has been earned by more than 15,000 Linux experts. Called the “crown jewel of Linux certifications,” independent surveys have ranked the RHCE program #1 in all of IT.



Red Hat Certified Architect (RHCA) *NEW!*

RHCEs who seek advanced training can enroll in Enterprise Architect courses and prove their competency with the newly announced Red Hat Certified Architect (RHCA) certification. RHCA is the capstone certification to Red Hat Certified Technician (RHCT) and Red Hat Certified Engineer (RHCE), the most acclaimed certifications in the Linux space. Full details on the five-course Enterprise Architect curriculum can be found on page 12.



Red Hat Certified Security Specialist (RHCSS) *COMING!*

An RHCSS has RHCE security knowledge plus specialized skills in Red Hat Enterprise Linux, Red Hat Directory Server and SELinux to meet the security requirements of today's enterprise environments. RHCSS is Red Hat's newest certification, and the only one of its kind in Linux.

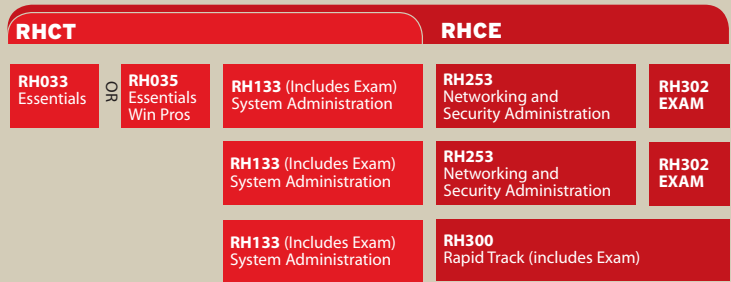
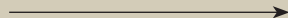
No UNIX/Linux experience



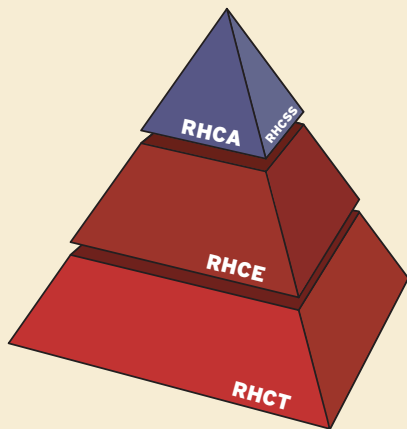
Some UNIX/Linux experience



Considerable UNIX/Linux on-the-job skills and experience



Red Hat training and certification programs consistently attain the highest possible ratings from customers, publications, and industry analysts alike.



- #1, Overall Quality of Program, Education and Test Exams (*Certification Mag./Fairfield Research*)
- Ranked #1 on CertCities.com's "10 Hottest Certifications for 2006", and considered as the "crown jewel of Linux certifications". (*CertCities.com*)
- Ranked amongst "Hottest Certifications in IT Today" five years running (*CertCities.com*)
- Red Hat Training and certification programs are "unparalleled in the Linux realm" (*UnixReview*)
- Red Hat certifications lead to second-largest pay increases year to year (*CRN 2004 Study*)
- "Red Hat certifications continue to grow in prominence and dividends and will generate even stronger returns as the Linux market grows." (*CRN 2004 study*)



FREE PRE-ASSESSMENT TESTS

Test your Linux smarts and identify your Red Hat course level with our automated pre-assessment tests. Completely free, no obligations, 10 minutes of your time.

www.apac.redhat.com/training/assess

RHCA

RHS333
Enterprise Security:
Network Services

EX333
EXAM

RH423
Directory Services and
Authentication

EX423
EXAM

RH401
Deployment and Systems
Management

EX401
EXAM

RH436
Storage Management

EX436
EXAM

RH442
System Monitoring and
Performance Tuning

EX442
EXAM

RHCA courses requires RHCE or equivalent experience.

COMING!

RHCSS

RHS333
Enterprise Security:
Network Services

EX333
EXAM

RHS423
Directory Services and
Authentication

EX423
EXAM

RHS429
SELinux Policy
Administration

EX429
EXAM

RH033 RED HAT ENTERPRISE LINUX ESSENTIALS

*Essential instruction for common command line processes
and desktop productivity roles.*

033	OR	035	RH133	RH253	RH302
			RH133	RH253	RH302
					RH300

COURSE DESCRIPTION

The first course for both RHCT and RHCE certification tracks, RH033 is ideal for individuals who have never used Linux or UNIX, and who have no prior command line experience in any other operating system. You are taught the basics of a Red Hat Enterprise Linux environment, and it prepares you for your future role as a system administrator.

PREREQUISITES

User-level experience with any computer system, use of menus, use of any graphical user interface.

GOAL

A Red Hat Enterprise Linux power user who can be productive in using and customizing a Red Hat system for common command line processes and desktop productivity roles, and who is ready to learn system administration (RH133).

AUDIENCE

Users who are new to Linux and have no prior UNIX or command line skills, who want to develop and practice the basic skills to use and control their own Red Hat Enterprise Linux system.

COURSE OBJECTIVES

- Understand the Linux file system
- Perform common file maintenance
- Use and customize the GNOME interface
- Issue essential Linux commands from the command line
- Perform common tasks using the GNOME GUI
- Open, edit, and save text documents using the vi editor
- File access permissions
- Customize X Window System
- Regular expression pattern matching and I/O redirection
- Install, upgrade, delete and query packages on your system
- Network utilities for the user
- Power user utilities

DURATION: 4 DAYS

FOLLOW-ON COURSES

RH133 Red Hat Enterprise Linux Sys. Admin. (p. 8)
RH253 Red Hat Enterprise Linux Net. and Sec. Admin. (p.9)
RH300 Red Hat Enterprise Linux RHCE Rapid Track (p. 10)

“Absolutely the best training session I have attended. I will be attending RH133 in the near future.”

RH033 student
USA

033	OR	035	RH133	RH253	RH302
			RH133	RH253	RH302
					RH300

RED HAT ENTERPRISE LINUX ESSENTIALS FOR WINDOWS PROFESSIONALS **RH035**

COURSE DESCRIPTION

Designed for Windows professionals with no prior UNIX or Linux experience, this course teaches fundamental Red Hat Enterprise Linux system administration skills. The first day provides a conceptual and practical transition for individuals to successfully add Linux management competencies to their portfolio. The remaining four days combines with the highly-acclaimed RH033 course, immersing individuals in the basics of a Red Hat Enterprise Linux environment and preparing them for future roles as cross-platform system administrators. The course also serves as the first course in the RHCT and RHCE tracks.

PREREQUISITES

Have experience with job tasks using Windows OS products at technician or system administrator level; experience as an IT professional; no prior UNIX or Linux experience required.

GOAL

A Red Hat Enterprise Linux power user familiar with common command line processes who can perform some system administration tasks using graphical tools. The individual will also be ready to develop a deeper understanding of Red Hat Enterprise Linux system administration (RH133).

AUDIENCE

The typical student will be a Windows technician who prefers to manage servers using a graphic user interface. The individual will also possess a desire to effectively manage Red Hat Enterprise Linux systems and broaden their individual skill set.

COURSE OBJECTIVES

- Learn to install software, configure the network, configure authentication, and install and configure various services using graphical tools
- Understand the Linux file system
- Issue essential Linux commands from the command line

- Understand file access permissions
- Customize X Window System
- Use regular expression pattern matching and I/O redirection

DURATION: 5 DAYS

FOLLOW-ON COURSES

- RH133 Red Hat Enterprise Linux Sys. Admin. (p. 8)
- RH253 Red Hat Enterprise Linux Net. and Sec. Admin. (p. 9)
- RH300 Red Hat Enterprise Linux RHCE Rapid Track. (p. 10)

“Linux is rather tough to learn, but is easy to understand if you play around with the commands. I have not had the opportunity to start with Red Hat server administration but I strongly believe that the skills that I have learnt from the course would be helpful to me. I would highly recommend this course for any Windows administrators whom have no prior experience with Linux or UNIX. On a lighter note, the tea breaks are a definite plus point!”

Philip Wang, NCS
Singapore

RH133

RED HAT ENTERPRISE LINUX SYSTEM ADMINISTRATION AND RHCT EXAM

System Administration and Red Hat Certified Technician (RHCT) Certification

033	OR	035	RH133	RH253	RH302
			RH133	RH253	RH302
					RH300

COURSE DESCRIPTION

RH133 focuses on skills in systems administration on Red Hat Enterprise Linux, to a level where you can attach and configure a workstation on an existing network. This 4.5-day course provides intensive hands-on training on Red Hat Enterprise Linux, and includes the RH202 RHCT Certification Lab Exam on the last day.

PREREQUISITES

RH033 Red Hat Enterprise Linux Essentials, RH035 Red Hat Enterprise Linux Essentials for Windows Professionals, or equivalent experience with Red Hat Enterprise Linux.

GOAL

Upon successful completion of this course, students will possess basic Linux system administrator knowledge which can be proved by passing the RHCT Exam. The exam is a performance-based lab exam that tests actual ability to install, configure, and attach a new Red Hat Enterprise Linux system to an existing production network.

RH131: 4 DAY COURSE WITHOUT RHCT EXAM

AUDIENCE

Linux or UNIX users who understand the basics of Red Hat Enterprise Linux and desire further technical training to begin the process of becoming a system administrator.

COURSE OBJECTIVES

- Install Red Hat Enterprise Linux interactively and with Kickstart
- Control common system hardware; administer Linux printing subsystem
- Create and maintain the Linux filesystem
- Perform user and group administration
- Integrate a workstation with an existing network
- Configure a workstation as a client to NIS, DNS, and DHCP services
- Automate tasks with at, cron, and anacron
- Back up filesystems to tape and tar archive
- Manipulate software packages with RPM
- Configure the X Window System and the GNOME d.e.
- Perform basic performance, memory, and process mgmt.
- Configure basic host security

DURATION: 4 DAYS + 0.5 DAY FOR RHCT EXAM

FOLLOW-ON COURSES

RH253 Red Hat Enterprise Linux Net. and Sec. Admin.

RH202 RHCT EXAM

The fastest growing credential in all of Linux.

- RHCT exam is included with RH133. It can also be purchased on its own.
- RHCT exams occur on the fifth day of all RH133 classes

EXAM DESCRIPTION

The RHCT (Red Hat Certified Technician) is a hands-on, performance-based exam testing candidates' actual skills in installing, configuring, and troubleshooting Red Hat Enterprise Linux. The certification Lab Exam is bundled with RH133, but individuals who have mastered the content of RH033 or RH035, and RH133 can take just the exam.

PREREQUISITES

Candidates should consider taking RH033 and RH133 in preparation for the exam, but they are not required to take it.

“ While it is generally difficult to arrange English training in Japan, Red Hat has again demonstrated its flexibility and determination to serve different needs by flying in an English-speaking Instructor. The training course is intensive but well organized, and you will find the course was a good reference even after the course. The all-lab exam is designed to test your true understanding of Linux and your ability to work under pressure. Highly recommend the Red Hat training and exams to professional System Administrators! ”

Zeng Weijian
Merrill Lynch Japan Securities Co.,Ltd.
Japan

033	OR	035	RH133	RH253	RH302
			RH133	RH253	RH302
					RH300

RED HAT ENTERPRISE LINUX NETWORKING AND SECURITY ADMINISTRATION **RH253**

COURSE DESCRIPTION

RH253 arms students with in-depth knowledge needed to configure common Red Hat Enterprise Linux network services. Network and local security tasks are also topics of this course.

PREREQUISITES

RH133 Red Hat Linux System Administration or equivalent experience with Red Hat Enterprise Linux, LAN/WAN fundamentals or equivalent, internetworking with TCP/IP or equivalent.

GOAL

Upon completion of this course, individuals can set up a Red Hat Enterprise Linux server and configure common network services and security at a basic level.

AUDIENCE

Linux or UNIX system administrators who already have some real-world experience with Red Hat Enterprise Linux systems administration, want a first course in networking services and security, and want to build skills at configuring common network services and security administration using Red Hat Enterprise Linux.

COURSE OBJECTIVES

- Networking services on Red Hat Enterprise Linux server-side setup, configuration, and basic administration of common networking services: DNS, NIS, Apache, SMB, DHCP, Sendmail, FTP. Other common services: tftp, pppd, proxy.
- Security administration using Red Hat Linux:
 - Introduction to security
 - Developing a security policy
 - Local security
 - Files and filesystem security
 - Password security
 - Kernel security

- Basic elements of a firewall
- Red Hat Linux-based security tools
- Responding to a break-in attempt
- Security sources and methods
- Overview of OSS security tools

DURATION: 4 DAYS

FOLLOW-ON COURSES

RH300 RHCE Rapid Track Course and RHCE Exam (p.10)
RH302 RHCE Certification Exam (p. 10)

“This course was excellent. The teacher was fantastic-his depth of knowledge is amazing.”

Greg Peters, Future Networks
USA

RH300 RHCE RAPID TRACK COURSE (AND RHCE EXAM)

The fastest path to RHCE certification for experienced UNIX/Linux users.

033	OR	035	RH133	RH253	RH302
			RH133	RH253	RH302
RH300					

COURSE DESCRIPTION

Five days in duration, this course provides intensive hands-on training on Red Hat Linux, and includes the RHCE Certification Exam on the last day.

PREREQUISITES

RH033, RH035 RH133, RH253 or equivalent experience with UNIX. Please do not register for RH300 unless you are experienced with systems administration or are a power user in UNIX or Linux environments. RH033, RH133, RH253 or equivalent experience with UNIX. Please do not register for RH300 unless you are experienced with systems administration or are a power user in UNIX or Linux environments.

GOAL

Upon successful completion of this course, individuals will be a Red Hat Enterprise Linux senior system administrator who has been trained and then tested by means of the RHCE Exam.

AUDIENCE

UNIX or Linux system administrators who have significant real-world experience and who want a fast-track course to prepare for the RHCE Exam.

COURSE OBJECTIVES

- Hardware and Installation (x86 architecture)
- Configuration and administration
- Alternate installation methods
- Kernel services and configuration
- Standard networking services
- X Window system
- User and host security
- Routers, Firewalls, Clusters and Troubleshooting

DURATION: 5 DAYS

FOLLOW-ON COURSES

Enterprise Architect curriculum, RHCA certification (p. 12) and RHCSS (p. 19)

RH302 RHCE EXAM

- RHCE exams are included with RH300. It can also be purchased on its own
- RHCE exams occur on the fifth day of all RH300 classes

EXAM DESCRIPTION

RHCE stands apart from many other certification programs in the IT sector because of its emphasis on hands-on, performance-based testing of actual skills in Red Hat Linux installation, configuration, debugging, and setup of key networking services.

PREREQUISITES

See RH300 course prerequisites. For further information, please refer to the RHCE Exam Prep Guide: www.redhat.com/training/rhce/examprep.html

CONTENT

- Section I: Troubleshooting and System Maintenance (2.5 hrs)
- Section II: Installation and Configuration (3 hrs.)

RH301: 4 DAY COURSE WITHOUT RHCE EXAM

“ I thought the course was fulfilling and very worthwhile! While the performance-based nature of the exam makes it challenging, the intensive hands-on training provided during the course certainly help to prepare me for it. ”

Bernard Chew RHCE,
Singapore

LINUX EDUCATION YOU CAN TRUST



Get Trained by Red Hat Experts

Looking for the best Linux training and certification available? Look no further than Red Hat. Unlike other Linux certifications, our RHCE and RHCT programs train and test actual hands-on competency on live systems. Red Hat training classes are available in over 133 locations across Asia Pacific, and at a location near you.

www.apac.redhat.com/training



redhat.



RED HAT CERTIFIED TECHNICIAN Core System Admin Skills

- Install and configure new Red Hat systems
- Attach new systems to an existing network
- Perform core system admin



Starting from scratch? Our new RHCT certification may be just what you need. Fewer required classes. Same legendary hands-on training and performance-based testing. As a Red Hat Certified Technician, you'll learn what you need to know to get the job done. And the RHCT is the first step towards RHCE.



RED HAT CERTIFIED ENGINEER Senior System Admin Skills

- RHCT-level skills plus:
- Set up networking services
- Configure security
- Diagnostics and troubleshooting



Want to be a Linux guru? RHCE is the gold standard certification. According to Certification Magazine/ Fairfield Research, RCHE is the #1 certification for the overall quality of program, #1 for quality of tests and exams, and #1 for overall educational quality.

RED HAT CERTIFIED ARCHITECT (RHCA)/ ENTERPRISE ARCHITECT CURRICULUM

Master-level competency. Indisputable proof.

Red Hat Certified Architect courses provide in-depth, hands-on training for senior Linux system administrators. RHCA is the capstone certification to Red Hat Certified Engineer (RHCE) and Red Hat Certified Technician (RHCT), the most recognized, acclaimed and mature certifications in the Linux space.

The full RHCA curriculum consists of four advanced 400-level Enterprise Architect courses and an upper-level security course:

- RHS333 Red Hat Enterprise Security: Network Services
- RH401 Red Hat Enterprise Deployment and Systems Management
- RH423 Red Hat Enterprise Directory Services and Authentication
- RH436 Red Hat Enterprise Storage Management
- RH442 Red Hat Enterprise Systems Monitoring and Performance Tuning

role competencies covered in the prior four days of hands-on training. Passing the Endorsement Exam earns the candidate an endorsement to his or her RHCE credential for that specific enterprise skillset. Endorsement exams vary in length from 2 to 8 hours depending on the course, and can only be taken by current RHCEs.

Current RHCEs will obtain Red Hat Certified Architect (RHCA) certification upon successfully passing all five endorsement exams.

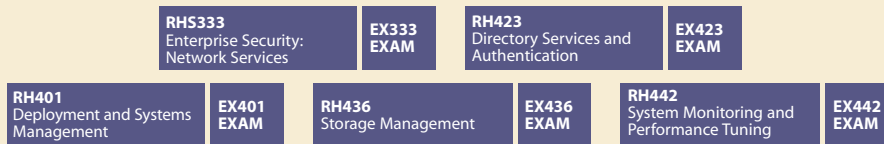
RHCA Endorsement Exams:

Each course in the curriculum is followed by an endorsement exam on the fifth day. Endorsement exams may be taken immediately following the corresponding course, or at any time. The exams are performance-based and test skills of the job



redhat
CERTIFIED
ARCHITECT

RHCA courses may be taken in any order and require RHCE or equivalent experience.



RED HAT ENTERPRISE SECURITY: NETWORK SERVICES

Security for the most commonly deployed services.

RHS333

COURSE DESCRIPTION

Red Hat Enterprise Linux has gained considerable momentum as the operating system of choice for deploying network services such as web, ftp, email, and file sharing. RHS333 Red Hat Enterprise Security: Network Services is an intensive course that provides four days of instruction and labs on how to use the latest technologies to secure your services.

PREREQUISITES

RH253, RH300, or RHCE certification or equivalent work experience is required for this course. Course participants should already know the essential elements of how to configure the services covered, as this course will be focusing on more advanced topics from the outset.

ENDORSEMENT EXAM EX333 ENTERPRISE SECURITY: NETWORK SERVICES 1 DAY

Upon passing the exam, candidates will have earned this additional endorsement to one's RHCE certification. This endorsement is one of the five required in order to earn RHCA.

GOAL

RHS333 trains people with RHCE-level competency to understand, prevent, detect, and properly respond to sophisticated security threats aimed at enterprise systems. The course equips system administrators and security professionals with the skills and knowledge to harden computers against both internal and external attacks, providing in-depth analysis of the ever-changing threat models as they pertain to Red Hat Enterprise Linux. RH333 builds on the security skills developed in other Red Hat training courses so that administrators can design and implement an adequate security profile for critical enterprise systems.

AUDIENCE

The audience for this course includes system administrators, consultants, and other IT professionals responsible for the planning, implementation, and maintenance of network servers. While the emphasis is on running these services on Red Hat Enterprise Linux, and the content and labs will assume its use, system administrators and others using proprietary forms of UNIX may also find many elements of this course relevant.

COURSE OBJECTIVES

- Mastering basic service security
- Understanding cryptography
- Logging system activity
- Securing BIND and DNS
- Network user authentication security
- Improving NFS security
- The secure shell: OpenSSH
- Securing email with Sendmail and Postfix
- Managing FTP access
- Apache security
- Basics of intrusion response

DURATION: 4 DAYS

FOLLOW-ON COURSES

(can be taken in any order)

RH401 Red Hat Enterprise Deployment and System Mgmt. (p. 14)

RH423 Red Hat Enterprise Directory Services and Authentication (p. 15)

RH436 Red Hat Enterprise Storage Mgmt. (p. 16)

RH442 Red Hat Enterprise System Monitoring and Performance Tuning (p. 17)

RH401 | RED HAT ENTERPRISE DEPLOYMENT AND SYSTEMS MANAGEMENT

Manage Red Hat Enterprise Linux deployments.

RHS333	EX	RH401	EX		
RH423	EX	RH436	EX	RH442	EX

COURSE DESCRIPTION

RH401 is a four-day intensive hands-on lab course in skills and methods critical to large-scale deployment and management of mission-critical Red Hat Enterprise Linux systems, including failover and load-balancing, CVS for system administrators, RPM rebuilding, and performance tuning for specific applications.

PREREQUISITES

RH253 at a minimum, RHCE certification preferred, or comparable skills and knowledge. All prospective course participants without RHCE certification are encouraged to verify skills with Red Hat's free online pre-assessment tests. *Note: Persons should not enroll in RH401 without meeting the above prerequisites. All prospective course participants who do not possess RHCE certification are strongly advised to contact Red Hat Global Learning Services for a skills assessment when they enroll.*

ENDORSEMENT EXAM EX401 DEPLOYMENT & SYSTEMS MANAGEMENT 1 DAY

Upon passing the exam, one will have earned this additional endorsement to one's RHCE certification. This endorsement is one of the five required in order to earn RHCA.

GOAL

RH401 trains senior system administrators to manage large numbers of Enterprise Linux servers in a variety of roles, and/or manage them for mission-critical applications that require failover and load-balancing. Further, RH401 is benchmarked on expert-level competencies in managing operating systems for enterprise roles—the course teaches how to implement and manage enterprise Red Hat Enterprise Linux deployments efficiently and effectively in ways that make the entire enterprise deployment manageable by a team.

AUDIENCE

Senior Red Hat Enterprise Linux system administrators and other IT professionals working in enterprise environments and mission-critical systems.

COURSE OBJECTIVES

- Configuration management using CVS
- Construction of custom RPM packages
- Software management with Red Hat Network Proxy Server
- Assembling a host provisioning and management system
- Performance tuning and analysis
- High-availability network load-balancing clusters
- High-availability application failover clusters

DURATION: 4 DAYS

FOLLOW-ON COURSES

(can be taken in any order)

RHS333 Enterprise Security: Securing Network Services (p. 13)

RH423 Red Hat Enterprise Directory Services and Authentication (p. 15)

RH436 Red Hat Enterprise Storage Mgmt. (p. 16)

RH442 Red Hat Enterprise System Monitoring and Performance Tuning (p. 17)

COURSE DESCRIPTION

RH423 is an intensive course that provides four days of instruction and labs on cross-platform integration of directory services to provide authentication or information service across the enterprise.

PREREQUISITES

RH253 at a minimum, RHCE certification preferred, or comparable skills and knowledge. All prospective course participants without RHCE certification are encouraged to verify skills with Red Hat's free online pre-assessment tests. Note: Persons should not enroll in RH423 without meeting the above prerequisites. All prospective course participants who do not possess RHCE certification are strongly advised to contact Red Hat Global Learning Services for a skills assessment when they enroll.

GOAL

RH423 trains senior system administrators to manage and deploy directory services on and for Red Hat Enterprise Linux systems. Gaining an understanding of the basic concepts, configuration, and management of LDAP-based services is central to this course. Students will integrate standard network clients and services with the directory service in order to take advantage of its capabilities. We will also look at PAM, the Pluggable Authentication Modules system, and how it is integrated with services that require authentication and authorization.

AUDIENCE

Senior Red Hat Enterprise Linux system administrators and other IT professionals working in enterprise environments and mission-critical systems.

COURSE OBJECTIVES

- Basic LDAP concepts
- How to configure and manage an OpenLDAP server
- Using LDAP as a "white pages" directory service
- Using LDAP for user authentication and management
- Integrating multiple LDAP servers

DURATION: 4 DAYS

FOLLOW-ON COURSES

(can be taken in any order)

- RHS333 Enterprise Security: Securing Network Services (p. 13)
- RH401 Red Hat Enterprise Deployment and Systems Management (p. 14)
- RH436 Red Hat Enterprise Storage Mgmt. (p. 16)
- RH442 Red Hat Enterprise System Monitoring and Performance Tuning (p. 17)

ENDORSEMENT EXAM EX423 DIRECTORY SERVICES & AUTHENTICATION 1 DAY

Upon passing the exam, one will have earned this additional endorsement to one's RHCE certification. This endorsement is one of the five required in order to earn RHCA.

RH436 RED HAT ENTERPRISE STORAGE MANAGEMENT

Deploy and manage Red Hat's cluster file system technology.

RHS333	EX	RH401	EX		
RH423	EX	RH436	EX	RH442	EX

COURSE DESCRIPTION

RH436 provides intensive hands-on experience with the emerging Shared Storage technology delivered by Red Hat Global File System™ (GFS). This four-day course focuses on the implementation of native Red Hat Enterprise Linux technologies included in Red Hat Cluster Suite and GFS.

PREREQUISITES

Participants in RH442 should already be familiar with Red Hat Enterprise Linux. Recommended minimum competency level is completion of the RHCE or equivalent knowledge. All prospective course participants without RHCE certification are encouraged to verify skills with Red Hat's free online pre-assessment tests.

GOAL

This course is designed to train people with RHCE-level competency on skills required to deploy and manage highly available storage data to the mission-critical enterprise computing environment. Complementing skills gained in RH401, this course delivers extensive hands-on training with the cluster file system, GFS.

AUDIENCE

Senior Red Hat Enterprise Linux system administrators and other IT professionals working in enterprise environments and mission-critical systems.

COURSE OBJECTIVES

- Review Red Hat Enterprise Linux storage management technologies
- Data storage design: Data sharing
- Cluster Suite overview
- Global File System (GFS) overview
- GFS management
- Modify the online GFS environment:
 - Managing data capacity
- Monitor GFS
- Implement GFS modifications
- Migrating Cluster Suite NFS from DAS to GFS
- Re-visit Cluster Suite using GFS

DURATION: 4 DAYS

FOLLOW-ON COURSES

(can be taken in any order)

- RHS333 Enterprise Security: Securing Network Services (p. 13)
- RH401 Red Hat Enterprise Deployment and Systems Management (p. 14)
- RH423 Red Hat Enterprise Directory Services and Authentication (p. 15)
- RH442 Red Hat Enterprise System Monitoring and Performance Tuning (p. 17)

ENDORSEMENT EXAM EX436 STORAGE MANAGEMENT 1 Day

Upon passing the exam, one will have earned this additional endorsement to one's RHCE certification. This endorsement is one of the five required in order to earn RHCA.

RHS333	EX	RH401	EX
RH423	EX	RH436	EX
		RH442	EX

RED HAT ENTERPRISE SYSTEM MONITORING AND PERFORMANCE TUNING

RH442

Performance tuning and capacity planning for Red Hat Enterprise Linux

COURSE DESCRIPTION

RH442 is an advanced four-day hands-on lab course covering system architecture, performance characteristics, monitoring, benchmarking, and network performance tuning.

PREREQUISITES

RHCT at a minimum, RHCE certification recommended, or comparable skills and knowledge. All prospective course participants without RHCE certification are encouraged to verify skills with Red Hat's free online pre-assessment tests.

GOAL

RH442 is designed to teach the methodology of performance tuning and capacity planning for Red Hat Enterprise Linux. This class will cover:

- A discussion of system architecture with an emphasis on understanding the implications of system architecture on system performance
- Methods for testing the effects of performance adjustments (benchmarking)
- Open source benchmarking utilities
- Methods for analyzing system performance and networking performance
- Tuning configurations for specific application loads

AUDIENCE

RH442 is aimed at senior Red Hat Enterprise Linux system administrators and other IT professionals working in enterprise environments and mission-critical systems.

COURSE OBJECTIVES

- Overview of system components and architecture as they relate to system performance
- Translating manufacturers' hardware specifications into useful information
- Using standard monitoring tools effectively to gather and analyze trend information
- Gathering performance-related data with SNMP
- Using open source benchmarking utilities
- Network performance tuning
- Application performance tuning considerations
- Tuning for specific configurations

DURATION: 4 DAYS

FOLLOW-ON COURSES

(can be taken in any order)

- RHS333 Enterprise Security: Securing Network Services (p. 13)
- RH401 Red Hat Enterprise Deployment and Systems Management (p. 14)
- RH423 Red Hat Enterprise Directory Services and Authentication (p. 15)
- RH436 Red Hat Enterprise Storage Mgmt. (p. 16)

ENDORSEMENT EXAM EX442 SYSTEM MONITORING & PERFORMANCE TUNING 1 Day

Upon passing the exam, one will have earned this additional endorsement to one's RHCE certification. This endorsement is one of the five required in order to earn RHCA.

RED HAT CERTIFIED SECURITY SPECIALIST (RHCSS) *COMING!*

Red Hat's newest credential and the only one of its kind in Linux.

RHS333	EX		
RH423	EX	RHS429	EX

The increasingly critical world of IT security requires more realistic and reliable measures of technical competency so that organizations can identify those qualified to implement security solutions. To this end, Red Hat now offers Red Hat Certified Security Specialist (RHCSS), a new security certification that proves advanced skills in using Red Hat Enterprise Linux, SELinux, and Red Hat Directory Server to meet the security requirements of today's enterprise environment.

The core RHCSS curriculum consists of three upper-level security courses:

- RHS333 Red Hat Enterprise Security: Network Services
- RH423 Enterprise Directory Services and Authentication
- RHS429 SELinux Policy Administration

These courses build on the security skills covered in the Red Hat Certified Engineer (RHCE) program,

which is a prerequisite. RHCSS shares common ground with RHCA—both credentials require skills and competencies taught in RHS333 and RH423. RHCSS additionally requires the skills covered in the RHS429 course.

The courses are all peer level, meaning each can be taken by someone with RHCE or equivalent skills. Any order is fine.

RHCSS Endorsement Exams: Endorsement exams are performance-based and test skills of the job role competencies covered in class. Passing the Endorsement Exam earns the candidate an endorsement to his or her RHCE credential for that specific enterprise skillset. Endorsement exams vary in length from 4 to 8 hours depending on the course, and can only be taken by current RHCEs.

Current RHCEs will obtain Red Hat Certified Security Specialist (RHCSS) certification upon successfully passing all three core endorsement exams.

Exam Dates and Pricing:

EX333: Security Services Network Exam.
EX423: Directory Services Authentication Exam.
EX429: SELinux Policy Administration.

Exams can only be taken by current RHCE's and occur on the fifth day of class.



redhat
CERTIFIED
SECURITY SPECIALIST

ENDORSEMENT EXAMS NOW AVAILABLE

RH333
Enterprise Security:
Network Services

EX333
EXAM

RH423
Directory Services and
Authentication

EX423
EXAM

RHS429
SELinux Policy
Administration

EX429
EXAM

RHS333 ENTERPRISE SECURITY: SECURING NETWORK SERVICES:

This course goes beyond the essential security coverage around in the RHCE curriculum and delves deeper into the security features, capabilities, and risks associates with the most commonly-deployed network services such as web, ftp ,email, and file sharing based on Red Hat Enterprise Linux. See page 13 for full course details.

RHS423 RED HAT ENTERPRISE DIRECTORY SERVICES AND AUTHENTICATION:

This course trains senior system administrators to manage and deploy directory services on and for Red Hat Enterprise Linux systems. Gaining an understanding of the basic concepts, configuration, and management of LDAP-based services is central to this course. Students will integrate standard network clients and services with the directory service in order to take advantage of its capabilities. We will also look at PAM, the Pluggable Authentication Modules system, and how it is integrated with services that require authentication and authorization. See page 15 for full course details.

RHS429 RED HAT ENTERPRISE SELINUX POLICY ADMINISTRATION

Among the most significant features of Red Hat Enterprise Linux is SELinux (Security Enhanced Linux), a powerful, kernel-level security layer that provides fine-grained control over what users and processes may access and execute on a system. RHS429 introduces advanced system administrators, security administrators, and applications programmers to SELinux policy writing. Participants in this course will learn how SELinux works; how to manage SELinux; and how to write an SELinux policy.

AUDIENCE

Computer security specialists and others responsible for implementing security policies on a Linux computer. RHS429 requires RHCE or comparable knowledge.

RHS427 INTRODUCTION TO SELINUX AND RED HAT TARGETED POLICY:

1 day rapid intro to SELinux, how it operates within the Red Hat targeted policy, and the tools available for working with this powerful capability. RHS427 constitutes the first day of RHS429.

1 DAY

BEYOND RHCSS

Beyond the three core RHCSS courses, Red Hat also offers RHS435 Red Hat Enterprise Certificate Management. In the future, Red Hat may introduce or extend other security-related tools, and support these with additional higher-level endorsements to RHCSS similar to the EX435 endorsement.

RHS435 RED HAT ENTERPRISE CERTIFICATE MANAGEMENT

RHS435 provides four days of instruction and labs for Linux and UNIX administrators who want to learn to setup and manage the Red Hat Certificate System.

Topics covered in this course include: understanding certificate management; using LDAP in a CMS; key management; Certificate Authority management; and troubleshooting.

AUDIENCE

RHS435 is designed for systems engineers, consultants, or others responsible for operating a Public Key Infrastructure (PKI) using the Red Hat Certificate System. RHS435 requires RHCE-level skills or comparable skills and knowledge. In addition, students should be familiar with SSL, X.509 certificate generation, and LDAP.

DEVELOPER

COURSES

“After four days of class I am further along than I could have been in two months of self-study and experimentation. Thank you all for a very profitable week.”

Don Woerner,
Segen Corporation

RHD143 RED HAT LINUX PROGRAMMING ESSENTIALS

An intensive hands-on course designed to rapidly train staff in key skills for developing applications and programs on Red Hat Enterprise Linux. This five-day course provides hands-on training, concepts, demonstrations, with emphasis on realistic labs and programming exercises. Upon completion of the course, students will have learned and practiced the essential skills required to develop programs for Linux systems. *5 days.*

RHD221 RED HAT LINUX DEVICE DRIVERS

This course is designed to teach experienced programmers how to develop device drivers for Linux systems. Upon completion of the course, students will understand the Linux architecture, hardware and memory management, modularization, and the layout of the kernel source, and will have practiced key concepts and skills for development of character, block, and network drivers. *5 days.*

RHD236 RED HAT LINUX KERNEL INTERNALS

This course is designed to provide a detailed examination of the Linux kernel architecture, including process scheduling, memory management, file systems, and driving peripheral devices. This five-day course provides hands-on training, concepts, and demonstrations, with emphasis on realistic labs and programming exercises. *5 days.*

RHD256 RED HAT LINUX APPLICATION DEVELOPMENT AND PORTING

A four-day developer course for experienced programmers who are already familiar with development on a UNIX-like system and want to develop new applications as well as port existing applications to Red Hat Enterprise Linux. *4 days.*

FREE PRE-ASSESSMENT TESTS

It's no secret that Red Hat Enterprise Linux is the most widely deployed Linux solution in the world today. Similarly, Red Hat training and certification programs have set the standard in Linux training for six years running with the most current, accurate, and respected hands-on training in the market.

And now, thanks to Red Hat's three fully automated pre-assessment tests, learning has never been easier. In just 15 minutes you can test your Linux knowledge and pinpoint the Red Hat course that's right for you. It's completely free, with no obligations. You can even forward your results to your boss or other colleagues.

So maximize your training investment and pre-assess for Linux success. Test your Linux smarts and identify your Red Hat course level today!

 www.apac.redhat.com/training/assess



TIP: Not RHCE-certified but still interested in advanced 400-level training? Our pre-assessments can indicate whether you possess the requisite RHCE-level competencies needed for class success.

“ If you’re thinking of taking any Red Hat’s classes, do yourself a favor and take the pre-assessment questionnaire. I was considering skipping the RH253 class and jumping right to the RH300 class. After taking the questionnaire I realized that I should really take the RH253 class, and I am really glad I did. I wouldn’t have gotten half as much out of the RH300 class if I didn’t take the RH253 class first. ”

-Frank Merenda, RH253 and RH300 Course Review, GeekTimeLinux.com

TRAINING UNITS (TUs)

High value, maximum savings. Choose the training path that's right for you.

TRAINING UNITS

Buy now. Train whenever.

A graphic for Red Hat Training Units. It features a red background with a subtle grid pattern. On the left, there is a vertical black bar. The text "TRAINING UNITS" is written in white, bold, uppercase letters. To the right of the text is the Red Hat logo, which consists of a red circle containing a white silhouette of a fedora hat, followed by the word "redhat." in a lowercase, sans-serif font.

TRAINING UNITS



Setting training schedules for groups of people isn't always easy. Which of your employees will take the training? What course(s) and/or exam(s) will they take? Where and when will they train? If these questions sound familiar, then we've got the solution for you. Red Hat Training Units act as class credits - buy now and apply them to any Red Hat training course within twelve months of your purchase.

And when it comes to unallocated end-of-year budget money, training units make a lot of sense. If you know that your team needs Red Hat training, and if you have the funds, but not the specifics, Red Hat Training Units are the answer.

Purchase Information: Red Hat Training Units are sold in packs of 10. Each pack is enough to purchase most courses including any in the RHCE track. Contact your local Red Hat office (p.25) for pricing information.

For more information visit www.apac.redhat.com/training/trainingunits

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