



SUN TRAINING AND CERTIFICATION GUIDE 2009, VOLUME I

ACHIEVEMENT AWARDS

- Training Magazine 2008 Top 125 Training Organization
• Chief Learning Officer magazine: 2008 Gold Learning Team Award
• Brandon Hall Research: 2008 Excellence in Learning
• American Society for Training and Development 2008 BEST award winner

UNLEASH YOUR POTENTIAL RIDE THE WAVE TO SUCCESS

Index

Table listing various Sun technologies and their corresponding page numbers in the index, such as JavaFX (2), Web 2.0 Technology (3), and Sun Servers and Storage (11).

Visit sun.com/training/global for the complete course catalog and the latest promotions.

Free certification retake promotion. See details on the back cover.



# JavaFX™

Rich applications for all the screens of your life.



> The JavaFX™ platform gives you unparalleled freedom and flexibility to create Rich Internet Applications (RIAs) and content across multiple screens, including mobile phones, desktops, televisions, and other consumer devices.



## FEATURED LEARNING

### Developing Innovative Multimedia JavaFX Applications (DTJ-2500)

**For:** Web developers and experienced Java™ programmers interested in creating Rich Internet Applications (RIA) for desktops and browsers.

**Includes:**

- Install NetBeans™ with JavaFX
- Create and deploy a simple JavaFX application
- Add images, multimedia and animation to the application
- Incorporate some Java language into the application
- Add a Web service to the application

### JavaFX Application Programming for Java Developers (DTJ-2600)

**For:** Web developers looking for more experience in developing Rich Internet Applications with JavaFX.

**Includes:**

- Creation of Swing Nodes in JavaFX Scenegraph
- JavaFX and JSP™ (JSF, Ajax)
- Accessing Webservices using Java and JavaFX
- Incorporate Visual assets to GUI application
- JavaFX Binding and Events, Layout Manager



## GET SUN CERTIFIED

Certifications	Description
Sun Certified Java Programmer (SCJP)	Demonstrate fundamental proficiency in the Java programming language.
Sun Certified Java Developer (SCJD)	Demonstrate advanced proficiency in creating Java applications using Java SE.
















## GET TRAINED—NEW AND FEATURED COURSES

Classroom

Web

CD

Course Title	Key Topics	Format/Course Code	Duration
<b>JAVAFX</b>			
 Developing Innovative Multimedia JavaFX Applications	Learn key aspects of JavaFX programming and create applications that incorporate animations, special effects, multimedia, and Web services.	 DTJ-2500	1 day
 JavaFX Application Programming for Java Developers	Creating Swing Nodes with JavaFX Scenegraph, JavaFX and JSP, Accessing Webservices, Binding and Events, Layout Manager.	 DTJ-2600	1 day
<b>FOUNDATIONAL AND RELATED COURSES</b>			
Java Programming Language	JDK 6, syntax, encapsulation, arrays, inheritance, exceptions, generics, collections, I/O, networking, threads, Swing API.	 SL-275-SE6  WJB-275-SE6  CDJ-275-SE6	5 days / 14 hours
Developing Applications for the Java SE Platform	MVC design pattern, GUI design, JMX, Junit, Java RMI, JDBC, two and three-tier Java technology applications, multithreaded server.	 SL-285-SE6  WJB-285-SE6  CDJ-285-SE6	5 days / 10 hours
JavaScript™ Language for Java Developers	JavaScript objects, Document Object Model (DOM), Ajax Security, JSON.	 SEM-DTJ-2121  WJO-2123	1 day / 4 hours
Core Swing: Developing Java GUIs Using Swing	Developing Java desktop applications using Swing.	 DTW-3400	3 days

# WEB 2.0 TECHNOLOGY

Sun is powering the Web 2.0 experience.



> Hundreds of millions of people are using social networking sites to express identity, establish affinities and unleash their creativity, and five out of the five fastest growing social networking sites are running on Sun technology.



## FEATURED LEARNING

### Web 2.0 and Java™ Web Site Development (DTH-314)

**For:** Developers creating Web sites using JavaScript™ technology, or other Web presentation technologies, and Web components.

**Includes:**

- Web page style and layout using CSS
- JavaScript programming essentials
- Using Ajax and Dojo Toolkit
- Java servlets and JSP™, JPA and EJB™ technologies

### Core Ajax: Enterprise Web Development with Ajax (DTW-2126)

**For:** Enterprise Web developers who want to learn a scalable way of writing robust, user-friendly, and secure Ajax solutions for the enterprise.

**Includes:**

- Ajax basics
- Managing/measuring HTTP traffic
- Using Ajax UI libraries
- Implementing Ajax with REST and SOAP Web services
- Implementing server-side Ajax toolkits



## GET SUN CERTIFIED










Certifications	Description
Sun Certified Java Programmer (SCJP)	Demonstrate fundamental proficiency in the Java programming language.
Sun Certified Java Developer (SCJD)	Demonstrate advanced proficiency in creating Java applications using Java SE.



## GET TRAINED—NEW AND FEATURED COURSES

Classroom

Web

Course Title	Key Topics	Format/Course Code	Duration
 Web 2.0 and Java Web Site Development	Web 2.0 front end, Ajax, JavaScript, CSS, JSP and Servlet introduction within a Model View Controller (MVC) application, RIA using the Dojo Toolkit.	 DTH-314	5 days
Core Ajax: Enterprise Web Development with Ajax	Ajax development, using DHTML, CSS, DOM, and JavaScript with Ajax, server communication, client-side codebases.	 DTW-2126 or SKM-2125*	4 days
The JavaScript Language and Ajax for Java Developers	JavaScript objects, Document Object Model (DOM), Ajax Security, JSON.	 SEM-DTJ-2121  WJO-2123	1 day / 4 hours
Ajax Primer: Developing with JavaScript & DOM	Understanding JavaScript objects, arrays, strings, functions, Document Object Model (DOM).	 DTW-2100 or SKM-2100*	1 day
Core JSF: JavaServer Faces in Action with Ajax	For application developers: JSF concepts, Struts and web frameworks, architectural principles, IDEs that support JSF, JSF development.	 DTW-3000 or SKM-3000*	4 days
Developing JavaServer Faces Components with Ajax	For JSF component developers: JavaServer Faces (JSF), Ajax, JSF component, Web tier.	 DTJ-3108	2 days
G&G Primer: Rapid Web Development with Groovy & Grails	Groovy language and Grails framework, integrating Grails with Java Enterprise services, databases and Web applications.	 DTW-2200 or SKM-2200*	1 day

\* Note that the course code varies by country.

# JAVA™ PROGRAMMING AND THE JAVA™ SE PLATFORM

A complete environment for application development and deployment.



Java™ is used by more developers than any other programming language with six million Java developers worldwide, and it's used in every major industry. Java is literally everywhere!



## FEATURED LEARNING

### Java Programmer Certification Package (PK-CSPJ-IL2)

**For:** Programmers interested in learning the Java programming language and preparing to become a Sun Certified Java Programmer (SCJP).

**Includes:**

- Classroom training: The Java Programming Language
- Online Practice Exam
- Voucher for the Sun Certified Java Programmer (SCJP) exam

**SAVE UP TO 10%**

### Learning the Java Programming Language CD Library (CDLJ-100)

**For:** Software developers interested in a comprehensive set of self-paced materials to learn the Java programming language. This collection of courses also helps you prepare for the SCJA, SCJP and SCJD certifications.

**Includes:**

- Fundamentals of the Java Programming Language
- Java Programming Language
- Developing Applications for the Java SE Platform
- Java Platform Overview for Managers


**SAVE UP TO 25%**

## GET SUN CERTIFIED

Certifications	Description
Sun Certified Java Associate (SCJA)	An ideal entry into an application development or a software project management career using Java technology.
Sun Certified Java Programmer (SCJP)	Demonstrate fundamental proficiency in the Java programming language.
Sun Certified Java Developer (SCJD)	Demonstrate advanced proficiency in creating Java applications using Java SE.

## GET TRAINED—NEW AND FEATURED COURSES

Classroom Web CD

Course Title	Key Topics	Format/Course Code	Duration
Fundamentals of the Java Programming Language	JDK™ 6, OO concepts, variables, constructs, loops, methods, encapsulation, arrays, inheritance.	Classroom: SL-110-SE6 Web: WJB-110-SE6 CD: CDJ-110-SE6	5 days / 8 hours
Java Programming Language	JDK 6, syntax, encapsulation, arrays, inheritance, exceptions, generics, collections, I/O, networking, threads, Swing API.	Classroom: SL-275-SE6 Web: WJB-275-SE6 CD: CDJ-275-SE6	5 days / 14 hours
Object-Oriented Analysis and Design Using UML	OO analysis, UML, dynamic models, design patterns, partitioning. Supports Sun Certified Java Developer Certification (SCJD).	Classroom: OO-226	5 days
Developing Applications for the Java SE Platform	MVC design pattern, GUI design, JMX, unit testing with Junit, Java RMI, JDBC™, two and three-tier Java applications, multithreaded server.	Classroom: SL-285-SE6 Web: WJB-285-SE6 CD: CDJ-285-SE6	5 days / 10 hours
 Java SE Performance Tuning	Intro to Java Persistence API (JPA). Write an application to create, retrieve, update, and delete database rows.	Classroom: SEM-DTJ-380	3 days

# JAVA™ EE AND GLASSFISH™ APPLICATION SERVER

Enterprise development and deployment for SOA and next-generation Web applications.



> The Java™ Platform, Enterprise Edition (Java EE) is the industry standard for implementing enterprise class service-oriented architecture (SOA) and when combined with the leading open-source GlassFish™ Application Server you get world class development and deployment.

## FEATURED LEARNING

### Enterprise Java Application Developer CD-ROM Library (CDJ-200)

**For:** Enterprise developers requiring a foundational knowledge for developing.

**Includes:**

- Developing Applications for the Java EE Platform
- Creating Web Services Using Java Technology
- Web Component Development with Servlet and JSP™ Technologies
- Business Component Development With EJB™ Technology
- Designing Java Web Services

**SAVE UP TO 25%**

### Enterprise Architect Certification Package (PK-CSPJ-IL7)

**For:** Java programmers and developers interested in becoming Java EE architects.

**Includes:**

- Classroom Training: Developing Applications for the Java EE Platform
- Classroom Training: Developing Architectures for Enterprise Java Applications
- Practice Exam
- Vouchers for all three steps to become a Sun Certified Enterprise Architect

**SAVE UP TO 10%**

## GET SUN CERTIFIED

Certifications	Description
Sun Certified Web Component Developer (SCWCD)	Specialize in JavaServer™ Pages and servlet technologies to present Web services and dynamic Web content.
Sun Certified Business Component Developer (SCBCD)	Specialize in developing applications that use EJB technology.
Sun Certified Developer for Java Web Services (SCDJWS)	Specialize in developing Web service for applications using Java technology components. New for Java EE5.
Sun Certified Enterprise Architect (SCEA)	Demonstrate the ability to develop robust architectures for enterprise Java applications.

## GET TRAINED—NEW AND FEATURED COURSES

Course Title	Key Topics	Format/Course Code			Duration
		Classroom	Web	CD	
<b>JAVA PLATFORM, ENTERPRISE EDITION (JAVA EE)</b>					
Developing Applications for the Java EE Platform	Java EE 5, EJB 3.0, JSP, Java Persistence API, Java Transaction API, JMS, JAX-WS. Supports all Java EE Certifications.	■ FJ-310-EE5	■ WJB-310-EE5	■ CDJ-310-EE5	5 days / 18 hours
Creating Web Services using Java Technology	Java EE 5, REST, SAX, JAXP, JAXB, SOAP, WSDL, JAX-WS.	■ DWS-3111-EE5	■ WJB-3111-EE5	■ CDJ-3111-EE5	3 days / 9 hours
Web Component Development with Servlet and JSP Technologies	Java EE 5, JSP and Servlet development, MVC, multi-tier analysis, custom tag libraries, Apache Struts. Supports SCWCD Certification.	■ SL-314-EE5	■ WJB-314-EE5	■ CDJ-314-EE5	5 days / 18 hours
Business Component Development with Enterprise JavaBeans Technology	For experienced EJB 2.0 developers; EJB 3.0 beans; JMS; JPA; Entities. Supports SCBCD Certification.	■ SL-351-EE5	■ WJB-351-EE5	■ CDJ-351-EE5	5 days / 14 hours
Enterprise Javabeans 3.0 Technology Update Workshop for Version 2.x Developers	EJB 3.0, JMS, JPA, Entities. Supports SCBCD Certification.	■ SL-352-EE5			3 days
Developing Architectures for Enterprise Java Applications	Java EE Blueprints and patterns, trade-off decisions, client tier, Web tier, business tier, integration tier, security, SOA. Supports SCEA certification.	■ SL-425			4 days
Java EE Patterns	Java EE components, messaging, EJB, class diagrams.	■ SL-500-EE5			4 days
<b>GLASSFISH APPLICATION SERVER</b>					
GlassFish Application Server: Administration Bundle	GlassFish Application Server, JSP, servlets, EJB, profile management, install, configure, upgrade, migrate and administer the application server.	■ WMTB-SAS-1600			9 hours
Sun GlassFish Enterprise Server Administration and Deployment	Hands-on experience via remote labs for configuring, administering, and deploying Web applications, EJB applications, and Web Services.	■ SAS-4455			4 days

# SUN JAVA™ COMPOSITE APPLICATION PLATFORM SUITE

Everything you need to develop and deploy a service-oriented architecture and composite applications.



> Sun's comprehensive Java™ CAPS suite offers a modular and pluggable business integration platform using a service-oriented architecture approach. It was ranked number 1 in SOA suites by Current Analysis in 2008.



## FEATURED LEARNING

### Enterprise Architect Certification Success Package – Blended (PK-CSPJ-BL7)

**For:** Enterprise architects responsible for architecting and designing Java EE technology-compliant applications.

**Includes:**

- Developing Applications for the Java EE Platform
- Developing Architectures for Enterprise Java Applications
- ePractice Exam
- Certification Vouchers for three components of certification – Exam, Essay and Assignment

**SAVE UP TO 20%**

### Introduction to Java CAPS 6 (CAPS-1013)

**For:** New Java CAPS users deploying and administering Java CAPS 6.







**Includes:**

- 3 days of classroom training
- Overview and Installation of Java CAPS 6
- Repository-based Development, Monitoring and Managing
- User-Defined OTDs
- The Sun JMS IQ Manager
- Using Business Processes in CAPS 6

## GET SUN CERTIFIED

Certifications	Description
Sun Certified Integrator for Java CAPS 5	For enterprise software integration specialists with experience in architecting, designing, implementing, testing, and deploying Sun Java CAPS solutions.

## GET TRAINED—NEW AND FEATURED COURSES

Course Title	Key Topics	Classroom	
		Format/Course Code	Duration
 What's New in Sun Java CAPS 6 for CAPS 5 Users	New features, functionality, vocabulary and concepts for Java CAPS 5 users. Install Java CAPS 6, create and configure projects, deploy and monitor projects.	 CAPS-0600	2 days
 Introduction to Sun Java CAPS 6	For new Java CAPS 6 users. Install, create and configure projects, deploy projects to GlassFish, monitor and manage deployed projects.	 CAPS-1013	3 days
Foundations of Sun Java Composite Application Platform Suite 5.x (Java CAPS) I	eGate 5.0 features and functionality.	 SB-CAP-0501 or SB-CAP-0500*	5 days
Foundations of Sun Java Composite Application Platform Suite 5.x (Java CAPS) II	Create Composite Applications using elnsight Business Process Manager, eVision Studio, eBAM Studio and eGate Integrator.	 SB-CAP-0502 or SB-CAP-0570*	5 days

\*Note that the course code varies by country.

# SUN IDENTITY MANAGEMENT

Sun keeps it simple with sustainable, everyday identity solutions.



Sun continues to lead the market with its infrastructure software and solution: Ranked in 2008 as a Strong Performer in the Forrester Wave for Identity and Access Management and in the Leaders Quadrant of Gartner’s Magic Quadrant for Web Access Management.



## FEATURED LEARNING

### Identity Manager 8.0 Product Overview and Architecture with On Demand Labs (PK-IDM-2471)

**For:** Those developing and deploying Identity Manager 8.0 who prefer an online format.

**Includes:**

- Web-Based Course Presentation and Product Demonstration
- Online On Demand Labs
- Online Assessment

**SAVE UP TO 15%**

### Identity Manager 8.0 Architecture and Basic Deployment (IDM-2472)

**For:** Those architecting and deploying Sun Identity Manager 8.0.

**Includes:**













- 3 days of classroom training
- Install Sun Identity Manager 8.0
- Role Management
- Exporting Sun Identity Manager Data with Data Exporter
- Enabling Process Diagrams and Charts
- Data Loading Practices and Reconciliation

## GET SUN CERTIFIED

Certifications	Description
 Sun Certified Integrator for Identity Manager	For enterprise software integration specialists with experience in architecting, designing, implementing, testing, and deploying identity management solutions and have completed both parts of the Identity Manager Deployment Fundamentals training.

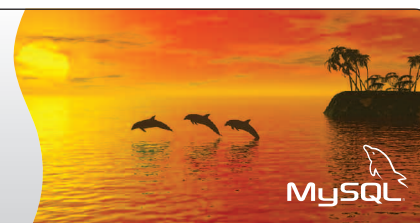
## GET TRAINED—NEW AND FEATURED COURSES

Classroom Web

Course Title	Key Topics	Format/Course Code	Duration
<b>SUN IDENTITY MANAGER 8.0</b>			
 Sun Identity Manager 8.0 Product Overview and Architecture	For architecture and implementation: Overview of Identity Management and the Sun Identity Manager 8.0 features and architecture.	 PK-IDM-2471	9 hours
 Installing, Configuring, and Maintaining Sun Identity Manager 8.0	For architecture and implementation: Covers installation, upgrade, and patch updates for Sun Identity Manager 8.0.	 PK-IDM-2472	7 hours
 Identity Manager 8.0: Architecture and Basic Deployment	For architecture and implementation: Learn to Install, update, and patch. Add and manage resources, seed accounts.	 IDM-2472	3 days
 Identity Manager 8.0: Performance & Troubleshooting with On-Demand Labs	For implementation and administration: Troubleshoot Workflows, Forms, Views, Reconciliation, ActiveSync, and resource adapters.	 PK-IDM-2473	7 hours
<b>SUN OPENSZO</b>			
 OpenSSO Enterprise 8.0 Overview and Architecture	For architecture and implementation: Deploy, configure, manage and administer OpenSSO, logging and debugging, deploying fedlets.	 AM-3800	5 days
Sun Java System Identity Manager: Deployment Fundamentals	Configure roles, resources, reconciliation, and user objects Implement XPRESS, forms, and rules.	 IDM-345	5 days
Sun Java System Identity Manager: Deployment Fundamentals II	Complete a four phase deployment scenario using data synchronization, forms, correlation rules, workflow tasks.	 IDM-4485	5 days

# MySQL™

Ultimate scalability for the Web economy.



MySQL™ database is the world's most popular open source database because of its fast performance, high reliability, ease of use, and dramatic cost savings. And with the launch of MySQL 5.1, it now includes enterprise-caliber features to help manage very large data sets and increase performance.



## FEATURED LEARNING

### Quick Start Bundle

**For:** DBAs with little to no experience with MySQL or database administration looking to achieve the MySQL DBA Certification.

**Includes:**

- MySQL for Beginners
- MySQL 5.0 for DBAs
- MySQL 5.0 Performance Tuning
- MySQL 5.0 DBA Certification Voucher
- MySQL 5.0 DBA Certification Study Guide

**SAVE UP TO 25%**

### Next Step Bundle

**For:** DBAs with some database administration looking to gain additional knowledge and skills with MySQL and achieve the MySQL DBA Certification.

**Includes:**

- MySQL 5.0 for DBAs
- MySQL 5.0 Performance Tuning
- MySQL 5.0 DBA Certification Voucher
- MySQL 5.0 DBA Certification Study Guide

**SAVE UP TO 25%**

## GET SUN CERTIFIED

Certifications	Description
Certified MySQL Associate (CMA)	Provides a foundation for further MySQL certification. Focuses on details of using MySQL that are universal no matter what version of the software you are using.
Certified MySQL 5.0 Developer (CMDEV)	For candidates who will be developing applications that use MySQL as back-end storage.
Certified MySQL Cluster 5.1 DBA	Specialization exam for those that design, deploy and administer MySQL Cluster setups.
Certified MySQL 5.0 DBA (CMDDBA)	For candidates who will take the administrative role of tuning, planning, and optimizing data layout for one or many servers, but do not write many applications.



## GET TRAINED—NEW AND FEATURED COURSES – Now inclusive of MySQL 5.1

Classroom

Course Title	Key Topics	Format/Course Code	Duration
MySQL for Beginners	Covers the fundamentals of SQL and relational databases, using MySQL as a teaching tool.	■	4 days
MySQL and PHP – Developing Dynamic Web Applications	Learn how to develop applications in PHP and how to use MySQL efficiently for those applications through a hands-on approach.	■	5 days
MySQL for Developers	Covers essential SQL statements for data design, querying, and programming.	■	5 days
MySQL Stored Procedure Techniques	Maximize the use of stored procedures and learn to discern when an application should or should not contain stored procedures.	■	2 days
MySQL Developer Techniques	Create complex queries and efficient structures while improving performance of database applications.	■	3 days
MySQL for Database Administrators	Learn how to install MySQL, create and execute Backup Strategies, create secure Stored Procedures to update and access data.	■	5 days
MySQL Performance Tuning	Designed for DBAs and others who wish to monitor and tune MySQL. Learn to utilize tools for monitoring, evaluating and tuning.	■	4 days
MySQL Cluster	Configure and manage the cluster nodes to ensure high availability, install the different nodes and understand the internals of the cluster.	■	3 days
MySQL High Availability	Analyze and form a basis of understanding of different high availability options, including clustering and replication solutions within MySQL.	■	3 days

# SOLARIS™ OPERATING SYSTEM

Innovation matters—choosing the right OS can save your business time and money.



> Solaris™ 10 has set and re-set dozens of performance and price/performance world records on a wide range of benchmarks, covering a variety of workloads on x86 and SPARC systems of all sizes. See all benchmarks: [sun.com/benchmarks/software/solaris.xml](http://sun.com/benchmarks/software/solaris.xml)

## FEATURED LEARNING

### Sun Certified System Admin. (SCSA) Level 1 Certification Package – On-Line Lab Edition (PK-CSPS-W12)

**For:** System Administrators who perform **essential** system administration tasks in the Solaris 10 OS. This package prepares you for the **part 1 exam** of the two-part **Sun Certified System Administration (SCSA)** Certification.

**Includes:**

- **On Demand Lab** – Sun Certified System Administrator: Level 1
- **ePractice Certification Exam**
- **Certification Voucher** – for SCSA part 1 exam

**SAVE UP TO 20%**

### Sun Certified System Admin. (SCSA) Level 2 Certification Package – Web Learning Edition (PK-CSPS-W02A)

**For:** System Administrators who perform **advanced** system administration tasks in the Solaris 10 OS. This package prepares you for the **part 2 exam** of the two-part **Sun Certified System Administration (SCSA)** Certification.

**Includes:**

- **Web Learning** – Sun Certified System Administrator: Level 2
  - Advanced Installation Technologies
  - Features for Experienced System Administrators
- **ePractice Certification Exam**
- **Certification Voucher** – for SCSA part 2 exam

**SAVE UP TO 30%**

## GET SUN CERTIFIED

Certifications	Description
Sun Certified System Administrator (SCSA) for the Solaris 10 OS	For system administrators and technical application support staff who perform essential system administration procedures on the Solaris OS.
Sun Certified Solaris Associate (SCSAS)	For new users to Solaris and university students who want to enhance your professional credibility by getting certified on Solaris 10 OS.
Sun Certified Network Administrator (SCNA)	For system administrators who manage a networked environment that includes LANs and the Solaris Operating System.
Sun Certified Security Administrator (SCSECA)	For system administrators with previous experience administering security in a Solaris Operating System. It is recommended that candidates be previously certified as a Sun Certified System Administrator (SCSA) and Sun Certified Network Administrator (SCNA).
Sun Certified Systems Administrator for Sun Cluster 3.2	For system administrators who want to specialize in data and application availability solutions using Sun Cluster software.

## GET TRAINED—NEW AND FEATURED COURSES

Classroom Live Virtual Class On Demand Labs

Course Title	Key Topics	Format/Course Code	Duration
On Demand Labs – Solaris 10 Essentials	Lab exercises/supporting lab workbook, remote lab environment, asynchronous support from an instructor.	■ WSPL-SA-100-S10	4 hours
Introduction to Solaris for Experienced Sys. Admin. of Windows and Linux environment	Accelerated training on core Solaris concepts for experienced Linux and Windows system administrators.	■ SA-010-S10	3 days
Solaris 10 ZFS* Administration	Identify Solaris ZFS requirements, manage ZFS storage pools, protect ZFS files using ACLs, and using ZFS with Solaris Zones.	■ SA-229-S10 ■ VC-SA-229-S10	2 days
Dynamic Performance Tuning and Troubleshooting With DTrace	Use Dynamic Tracing (DTrace) to diagnose application and system problems.	■ SA-327-S10 ■ VC-SA-327-S10	3 days

# SUN VIRTUALIZATION

Expand your virtualization choices — no one else has as many ways to virtualize.



> To help customers deploy new services faster, maximize the utilization of system resources, and monitor and manage virtualized environments more easily, Sun offers a complete desktop-to-datacenter virtualization product portfolio. Details at [sun.com/solutions/virtualization/resources.jsp](http://sun.com/solutions/virtualization/resources.jsp)

## FEATURED LEARNING

### Sun Virtualization: Solaris™ 10 Logical Domains Administration (SA-345-S10)

**For:** Systems Administrators interested in using Logical Domains to create virtual machines on Sun's CoolThreads servers — up to 128 virtual machines on one server for FREE.

**Includes:**

- Two days of classroom training
- IT virtualization trends and best practices in the datacenter
- An understanding of Logical Domain architecture
- Practical LDom planning, configuration, and administration experience






### Sun Cluster 3.2 Administration (ES-345)

**For:** Systems Administrators interested in using Sun Cluster software, the multi-system, multi-site solution for 24/7 high availability and global disaster recovery.

**Includes:**

- Five days of classroom training
- An introduction to Sun Cluster features
- Experience installing and administering Sun Cluster 3.2 software
- Experience configuring hardware, software systems and failover data services in the Sun Cluster environment

## GET TRAINED—NEW AND FEATURED COURSES

Course Title	Key Topics	Format/Course Code		Duration
		Classroom	CD	
 Getting Started with Sun xVM Server	Present the features and benefits of Sun xVM Server. Show how to install the product, create and manage guests.		WS-3351	1 hour
Getting Started with Sun xVM Ops Center	Intro to Sun xVM Ops Center, the software to simplify discovery, monitoring, OS provisioning, of your x86 and SPARC systems.		WS-2556	5 hours
Sun Grid Engine Advanced Administration	Learn how to use this software to optimize system utilization by automatically distributing workloads across networked resources.		ES-337	3 days
Sun Virtualization: Solaris 10 Containers Administration	Explain zone features and concepts. Show how to configure zones, resource pools and use the zonecfg command.		SA-355-S10	3 days

# SUN SERVERS AND STORAGE

Sun's system approach to servers and storage brings value, access simplicity and trust to all of your data.



> To meet your business needs in HPC, Virtualization, Eco innovation, Archive or Backup and Recovery, Sun offers solutions built on award-winning Sun servers and open storage systems.

## FEATURED LEARNING

### Sun Storage 7000 Unified Storage System Administration (NWS-6425)

**For:** Systems Administrators interested in learning how to operate the new Sun Storage 7000 system, the industry's first Open Storage appliances with Enterprise SSDs based on Flash technology and Solaris ZFS.

**Includes:**

- Three days of classroom training
- Experience installing, configuring and administering the product
- How to utilize available tools and scripts
- How to collect data and analyze faults to troubleshoot the system

### Sun SPARC Enterprise MX000 Server Administration Course Package (PK-ES-411)

**For:** Systems Administrators interested in learning how to manage high-end servers with mainframe-class features and datacenter reliability. These servers are targeted for virtualization and consolidation projects in the datacenter.

**Includes:**

- Four days of classroom training
- An understanding of the features and architecture specifics of these servers
- Experience administering and configuring the servers
- An understanding of troubleshooting tools and techniques for this server line

## GET TRAINED—NEW AND FEATURED COURSES

Classroom Web Live Virtual Class

Course Title	Key Topics	Format/Course Code	Duration
Sun SPARC Enterprise M3000 Server	Features and architecture, rack installation, FRU replacement, configuration, troubleshooting.	WET-6774	2 hours
Sun SPARC Enterprise T5440 Server Installation, Administration, and Troubleshooting	Physical components and architecture, chip multithreading, parts replacement, service processor and system configuration, troubleshooting.	WET-6229	8 hours
Sun StorageTek™ VTL Plus 2.0 Software Administration and Configuration	Virtual tape library, accelerated backup and restore, disaster recovery, remote office, distributed data protection.	NWS-3531  VC-NWS-3531	3 days
Sun StorageTek Storage Archive Manager and Sun StorageTek QFS 5.0	Data management, IT governance and compliance with access logging and WORM support.	PK-NWS-4510	4 days
Hitachi Data Systems Software	Dynamic Provisioning, Virtual Partition Manager, ShadowImage In-system Replication, Dynamic Link Manager, Universal Volume Manager.	HDS-458	5 days

# STAND OUT FROM THE CROWD. GET TWO CHANCES TO BECOME SUN CERTIFIED — LIMITED TIME OFFER.

With the purchase of a certification exam voucher through May 29, 2009, you can take the exam a second time for free, if you need it. Here's how:

- Select the package or certification exam that interests you
- Use **Priority Code WW39CX4** when you place your order
- Purchase by May 29, 2009
- Schedule your exam
- And if you don't pass the first time, schedule your retake exam for FREE

**To Order:** Contact your country training office or Web site.

## GET SUN CERTIFIED. GET GOING.

Contact Sun today: [sun.com/training/global](http://sun.com/training/global)

#### ALBANIA

Telephone: +30 210 6169 984

#### ARGENTINA

Telephone: (5411) 4317-5600

#### AUSTRALIA

Telephone: 1800 628-193

#### AUSTRIA

Telephone: +43 1 60563 11807

#### BELGIUM

Telephone: +32 (0) 2 704 89 83

#### BOSNIA-HERZEGOVINA

Telephone: +30 210 6169 984

#### BRAZIL

Telephone: 0800 55 7863

#### BULGARIA

Telephone: +30 210 6169 984

#### CANADA

Telephone: 800-422-8020

#### CHILE

Telephone: (562) 372 4500

#### CHINA- BEIJING

Telephone: 8610 68035588

#### CHINA – GUANGZHOU

Telephone: 8620 87555900

#### CHINA – SHANGHAI

Telephone: 8621 64661228

#### COLUMBIA

Telephone: (571) 6288566

#### CROATIA

Telephone: +30 210 6169 984

#### CZECH REPUBLIC

Telephone: +420 233 009 359

#### DENMARK

Telephone: +45 455 65040

#### EGYPT

Telephone: +971 4366 2600

#### FINLAND

Telephone: +358 952 5561

#### FORMER YUGOSLAV REPUBLIC OF MACEDONIA

Telephone: +30 210 6169 984

#### FRANCE

Telephone: +33(0)1 34 03 17 17

#### GERMANY

Telephone: +49/89 46008 2788

#### GREECE

Telephone: +30 210 6169900

#### HONG KONG

Telephone: (852) 2202 6256

#### HUNGARY

Telephone: +36 1 489 8958

#### IRELAND

Telephone: +351 805 5600

#### INDIA

Telephone: 1800-425-1234

#### INDONESIA

Telephone: (62) 21 527-6789

#### ISRAEL

Telephone: +972 9 9710504

#### ITALY

Telephone: +800 031813

#### JAPAN

Telephone: 81-3-5717-4300

#### KOREA

Telephone: 080-007-7800

#### LUXEMBOURG

Telephone: +352 (0)49 11 33 29

#### MALAYSIA

Telephone: (603) 2116-1888

#### MEXICO

Telephone: 01 800 90 98 600 opción 4

#### MIDDLE EAST AND NORTH AFRICA REGION

Telephone: +971 4366 2600

#### MONTENEGRO

Telephone: +30 210 6169 984

#### NETHERLANDS

Telephone: +31 33 4515200

#### NEW ZEALAND

Telephone: 0800 786 338

#### NORWAY

Telephone: +47 233 69650

#### PHILIPPINES

Telephone: (632) 885-7867

#### POLAND

Telephone: +48 22 874 7848

#### PORTUGAL

Telephone: +35 1 214 220 460

#### ROMANIA

Telephone: +30 210 6169 984

#### RUSSIAN FEDERATION

Telephone: +7 495 935 8411

#### SAUDIA ARABIA

Telephone: +971 4366 2600

#### SERBIA

Telephone: +30 210 6169 984

#### SINGAPORE

Telephone: (65) 6216-8300

#### SLOVAKIA

Telephone: +421 248 210 800

#### SLOVENIA

Telephone: +30 210 6169 984

#### SOUTH AFRICA

Telephone: +27 11 256 6300

#### SPAIN

Telephone: +34 902 210 412

#### SRI LANKA

Telephone: (65) 6438-1888

#### SWEDEN

Telephone: +46 8 631 22 00

#### SWITZERLAND (GERMAN-SPEAKING)

Telephone: +41 (44) 908 90 50

#### SWITZERLAND (FRENCH-SPEAKING)

Telephone: +41 22 999 04 04

#### TAIWAN

Telephone: 0800-088-786

#### THAILAND

Telephone: 66-2344-6888

#### TURKEY

Telephone: +90 212 335 22 68

#### UKRAINE

Telephone: +38 (044) 490 1245

#### UNITED ARAB EMIRATES

Telephone: +971 4366 2600

#### UNITED KINGDOM

Telephone: +44 1252 421212

#### UNITED STATES

Telephone: 800-422-8020

#### VENEZUELA

Telephone: 58 212 9053947

#### VIETNAM

Telephone: (65) 6216-8300

Sun Microsystems, Inc. 4150 Network Circle, Santa Clara, CA 95054 USA Phone 1-650-960-1300 or 1-800-555-9SUN Web [sun.com](http://sun.com)

© 2009 Sun Microsystems, Inc. All rights reserved. Sun, Sun Microsystems, the Sun logo, Enterprise Java Beans, EJB, GlassFish, Java, JavaFX, JavaScript, J2EE, J2SE, JavaONE, Java Server Pages, JDBC, JDK, JSP, MySQL, NetBeans, Solaris, StorageTek, and Sun StorEdge are trademarks or registered trademarks of Sun Microsystems, Inc. or its subsidiaries in the United States and other countries. All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. in the US and other countries. Products bearing SPARC trademarks are based upon an architecture developed by Sun Microsystems, Inc. Information subject to change without notice. SunWIN #555815 Lit. #SVBR14789-0 01/09

