



# *Storage Management Certification Roadmaps*





# Professional Certification Program from IBM

In today's ever-changing business environment, it's essential to keep pace with complex technologies and products. Most businesses are looking for complete solutions rather than tactical efforts. The Professional Certification Program from IBM offers a business solution for skilled technical professionals seeking to demonstrate their expertise to the world.

The program is designed to validate your skills and demonstrate your proficiency in the latest IBM technology and solutions. In addition, professional certification may help you excel at your job by giving you and your employer confidence that your skills have been tested. You may be able to deliver higher levels of service and technical expertise than noncertified employees and move on a faster career track. Professional certification puts your career in your control.

The Professional Certification Program from IBM has developed new certification names and roadmaps to guide you in your professional development. These include IBM Certified Developer Associate (IBM CDA), IBM Certified Developer (IBM CD), IBM Certified Specialist (IBM CS), IBM Certified Systems Expert (IBM CSE), IBM Certified Solutions Expert (IBM CSE), IBM Certified Instructor (IBM CI) and IBM Certified Advanced Technical Expert (IBM CATE).

Whether you are a network administrator, systems integrator, network integrator, solution architect, value-added reseller, technical coordinator, sales representative or an educational trainer, you can start charting your course through the Professional Certification Program today!

For more information, visit our web site—<http://www.ibm.com/certify>

## ADSM Professional Certification

Relied on by major corporations around the world, IBM's ADSTAR\* Distributed Storage Manager (ADSM) software provides an enterprise-wide storage management solution. It includes unattended network backup and archive, Hierarchical Storage Management (HSM), and a Disaster Recovery Manager (DRM) designed to support business continuance while implementing disaster recovery operations.

The ADSM certification is designed for professionals who are in the business of providing data storage management solutions for their customers. The IBM Storage Systems Division has developed the ADSM certification program to provide assurance that the technical professional has the required expertise to implement and manage such solutions.

IBM education courses are recommended but not required to take certification exams.

Every effort has been made to make the courses and publications as complete and as accurate as possible, but no warranty or fitness is implied. The course information and publications are provided on an "as is" basis. IBM shall have neither liability nor responsibility to any person or entity with respect to any loss or damages arising from course or publication content.

The information contained in this document was current at the time of printing. Current information is at <http://www.ibm.com/certify>

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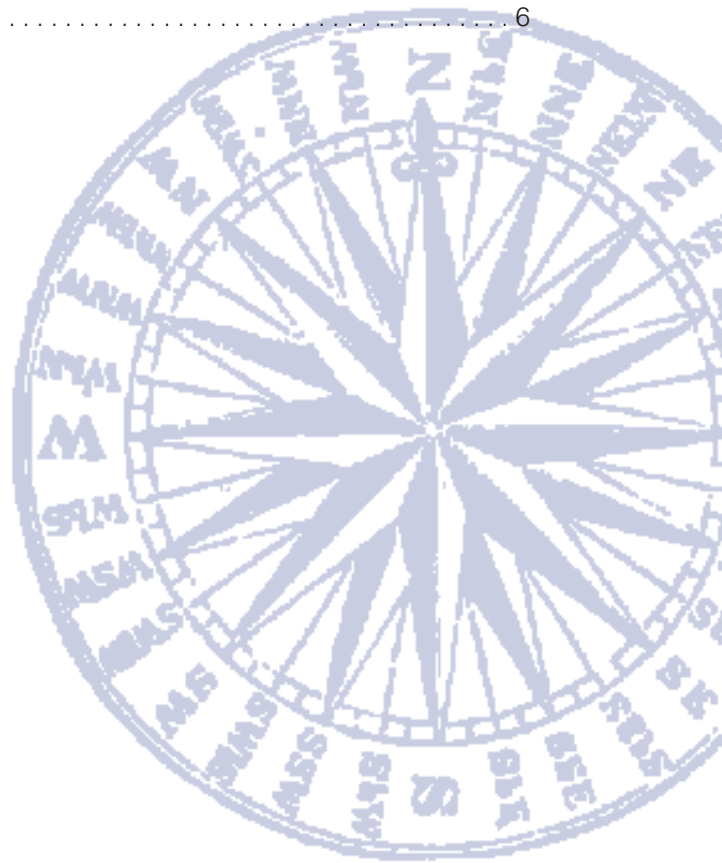
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# *IBM Certified Specialist ADSTAR Distributed Storage Manager Version 2 and 3*



## *Certification Requirement: 1 Test*

### Role Description:

**IBM CS - ADSTAR Distributed Storage Manager Version 2 and 3:** If you plan, design, install and implement ADSM systems, wish to demonstrate your skills across ADSM's broad set of functions, and wish to excel in delivering ADSM storage management solution services, this certification could validate your skills.

### Recommended Prerequisite:

- Actual hands-on experience is critical to your success. It is recommended that you have experience in planning, installing, customizing, and supporting ADSM in two to four actual implementations prior to taking the certification test.

### Core Requirement (1 Test):

**Test 241  
ADSM V2 and V3  
Solution Development  
and Implementation**

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### **Benefits:**

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- *Certificate*
- *Wallet-size certificate*
- *Lapel pin*
- *Certification logo*

The information contained in this roadmap (as well as test objectives and sample tests) is available from our website – <http://www.ibm.com/certify>

# IBM Certified Specialist

## IBM Enterprise Storage Sales



### Certification Requirement: 1 Test

#### Role Description:

**IBM CS - IBM Enterprise Storage Sales:** The IBM Certified Specialist in IBM Enterprise Storage Sales has a broad knowledge of the features, functions and benefits of IBM enterprise storage sales products, attached to NT, mid-range and S/390 as well as an understanding of the competition and competitive products.

The IBM Certified Specialist - IBM Enterprise Storage Sales identifies opportunities for business and generates/qualifies demand using a consultative approach. This specialist determines business needs and requirements, effectively uses available tools and resources to create and design enterprise storage solutions that meet the customer needs and requirements, and positions the solution in terms of what it does for the customer's business and closes sales.

#### Recommended Prerequisites:

- Approximately two years of experience selling general storage solutions
- Capability to work in complex business environments

#### Core Requirement (1 Test):

**Test 242\***

**Enterprise Storage Sales**

#### Benefits:

- Certificate
- Wallet-size certificate
- Lapel pin
- Certification logo

\* Test 242 will be available in July 1999.

The information contained in this roadmap (as well as test objectives and sample tests) is available from our website – <http://www.ibm.com/certify>

# IBM Certified Specialist IBM Mid-Range Storage Technical Specialist



## Certification Requirement: 1 Test

### Role Description:

**IBM CS - IBM Mid-Range Storage Technical Specialist:** The IBM Certified Specialist - IBM Mid-Range Storage Technical Specialist has a wide range of detailed technical knowledge about IBM mid-range storage sales products and the skills to integrate those products into customer solutions.

This specialist performs requirements analysis, architecture development/solution design, installing/planning, and post-installation support. This specialist takes a consultative approach to support sales, as well as trains customers and mentors peers in storage technical issues.

The IBM Mid-Range Storage Technical Specialist understands and is able to explain tape, disk, optical, and storage management products. This specialist is conversant with mid-range systems and can describe in detail storage strategy and solutions, the storage industry, the competition, and business trends and directions.

### Recommended Prerequisites:

- Two years of experience in technical storage sales support
- At least 3 to 5 years of experience in a related Information Technology technical sales support role.
- Capability to work effectively in complex environments

### Core Requirement (1 Test):

**Test 243\***

**Mid-Range Storage  
Technical Specialist**

### Benefits:

- Certificate
- Wallet-size certificate
- Lapel pin
- Certification logo

\* Test 243 will be available in July 1999.

The information contained in this roadmap (as well as test objectives and sample tests) is available from our website – <http://www.ibm.com/certify>

# Courses for Storage Management Certification

*Experience is essential for successful completion of certification exams. Education is not required, although the following courses may be useful in your exam preparation.*

- To register for courses or to request course objectives, call IBM Learning Services.
- Information is also available from the IBM Learning Services home page – <http://www.training.ibm.com/ibmedu>
- Specific education programs and promotions may be available for IBM Business Partners.  
Please consult the ADSM Business Partner website for more information - <http://www.ibm.com/storage/adsmbp>.
- For more information about these and other ADSM courses, please consult the ADSM home page – <http://www.ibm.com/storage/ADSM>

Test Number	Course Title	Duration	Course No.
Test 241	<b>ADSM Version 3 Implementation</b> This course teaches how to plan and implement ADSM V3 to provide automatic backup and archive operations on workstations, and to use the administrator and client functions of ADSM. This class includes hands-on labs.	4.5 Days	<b>SS50 (WW) SS50A (NA)</b>
	<b>or</b> <b>ADSM Implementation Overview</b> This two day course introduces Services Providers to the benefits of developing a storage management solutions business based on ADSM and how to install and implement a basic ADSM system. The class offered by IBM Storage Systems Division, includes lectures, hands-on labs, and a case study.	2 Days	<b>BT23 (*)</b>
<b>AND</b>			
<b>Experience</b> It is strongly recommended that you install and implement at least two ADSM server licenses before participating in an ADSM Advanced Solution Design course (SS55 or ES35).			
<b>AND</b>			
	<b>ADSM V3 Advanced Solution Design</b> This course teaches in-depth considerations in planning and designing an ADSM system, including identifying decision-points and tradeoffs in cost and performance. This class teaches people who already know how to setup and use ADSM how to improve their design and planning expertise. This class also can help students prepare for the ADSM certification exam by stretching their current expertise as they plan a case-study solution.	3.5 Days	<b>SS55 (WW) SS55 (NA)</b>
	<b>or</b> <b>ADSM Advanced Solution Design</b> This course teaches in-depth considerations in planning and designing an ADSM system, including identifying decision-points and tradeoffs in cost and performance. This class teaches people who already know how to setup and use ADSM how to improve their design and planning expertise. This class also can help students prepare for the ADSM certification exam by stretching their current expertise as they plan a case-study solution.	3 Days	<b>ES35 (*)</b>

NA = North America      US = United States      WW = Worldwide

\* Course available in Europe, the Middle East, Africa, and the Asia/Pacific region.  
This course is no longer available in North America. Only IBM Business Partners may enroll in BT23 and ES35.

# Publications for Storage Management Certification

To order a publication, refer to the IBM Direct publications catalog on the Internet at <http://www.elink.ibm.com/pbl/pbl>. Also, in the U.S., you can call 1-800-879-2755 and select option 1; in Canada, call 1-800-IBM-4YOU (1-800-426-4968).

<b>Test Number</b>	<b>Publication Title</b>	<b>Order No.</b>
Test 241	<b>ADSM Concepts Redbook</b> This book describes the concepts of ADSM. It provides a tutorial on ADSM and the environments it supports.	SG24-4877
	<b>ADSM for AIX Administrator's Guide</b> This document assists administrators performing tasks associated with ADSM, including planning, installation, customization, administration, operation, and problem diagnosis.	SH35-0134
	<b>AIX Tape Management Redbook</b> This book is written for systems, storage, and UNIX administrators who want to learn more about managing tapes in an AIX environment.	SG24-4705
	<b>ADSM Installing the Clients</b> This book provides information regarding the installation and implementation of ADSM clients including the backup-archive, application program interface (API), space management, and administrative clients.	SH26-4049
	<b>Using the UNIX Backup-Archive Clients</b> This publication describes how to use the ADSM backup-archive client on various UNIX workstations.	SH26-4052
	<b>The ADSM V2R1 Performance Tuning Guide</b> Provides detailed information about tuning certain system parameters to enhance system performance.	SH26-4034
	<b>ADSM Server for Windows NT Configuration and Recovery Examples</b> This redbook provides configuration and recovery examples for the ADSM Server for Windows NT. The examples cover installation, configuration tools, tape and tape library configuration, database recovery, storage pool recovery, and server disaster recovery.	SG24-4878
	<b>Windows NT Backup and Recovery with ADSM</b> This book explores the requirement for backup solutions to protect the Microsoft NT Server and some of its common applications against failures from minor to disaster level in severity.	SG24-2231
	<b>ADSM Version 3 Technical Guide</b> ADSM Version 3 introduces new functions such as enhanced user interfaces improved performance, server-to-server communications, and integration with systems management applications. This redbook describes in technical detail these new functions.	SG24-2236
	<b>Using ADSM to Back Up Databases</b> This book is written for IBM, customer, vendor, and consultant personnel who want to understand how to use ADSTAR Distributed Storage Manager (ADSM) to back up databases or learn how to integrate ADSM with database and operating system backup utilities.	SG24-4335
	<b>Using ADSM to Back Up Lotus Notes</b> ADSM provides the marketplace's solution for incremental backup and restore of individual Lotus Notes database documents. This redbook addresses backup and recovery of Lotus Notes 4.5 on OS/2, Windows NT, and AIX.	SG24-4534
	<b>ADSM Client Disaster Recovery: Bare Metal Restore</b> This redbook describes how to use ADSTAR Distributed Storage Manager (ADSM) to recover from the complete loss of an ADSM client system. Recovery may be required because of a disaster, such as a fire or flood, or a simple hard disk failure that prevents a system from booting.	SG24-4880
	<b>Implementing ADSM Server-to-Server Configuration</b> This redbook shows how server-to-server communications can help you make more productive use of distributed storage resources throughout your enterprise. This redbook helps you plan for, configure, and operate server-to-server communications.	SG24-5244



# General Program Information

## Test Preparation

- **Education Courses** are offered through IBM Learning Services worldwide. For class schedules and prices, call the IBM Learning Services Center nearest you, or on the Internet go to – <http://www.training.ibm.com/ibmedu>.
- **Test Descriptions, Test Objectives and Sample Tests** are valuable tools to help you prepare for certification exams. This information is available from the Professional Certification Program from IBM web site – <http://www.ibm.com/certify>.
- **Publications** will help you prepare for the tests. You can order publications worldwide from the IBM Direct publications catalog on the Internet – <http://elink.ibm.com/pbl/pbl>. Also, in the U.S., you can call 1-800-879-2755 and select option 1; in Canada call 1-800-IBM-4YOU (1-800-476-4968).

## Certification Testing

Tests for the Professional Certification Program from IBM are administered worldwide by Sylvan Prometric testing centers. In Europe and China, tests are also available through IBM Learning Services. For more information or to schedule an exam, call the center nearest you.

### Professional Certification Program from IBM web site –

<http://www.ibm.com/certify>

### Customer Support for Professional Certification Program from IBM

#### Email:

..... [certify@us.ibm.com](mailto:certify@us.ibm.com)

#### Telephone:

English ..... 1.800.426.8322

..... or 44(0)1475.557040

French ..... 44(0)1475.557041

German ..... 44(0)1475.557042

Italian ..... 44(0)1475.557043

Spanish ..... 44(0)1475.557044

### IBM Learning Services

United States and Canada:

..... 1.800.426.8322(1.800.IBM.TEACH)

### Sylvan Prometric Testing Centers

United States and Canada:

..... 1.800.959.3926(1-800-959-EXAM)

Eastern Europe: ..... 31(0)320.239895

U.K., Ireland, Scandinavia, The Middle

East, South Africa: ... 44(0)181.607.3850

France: ..... 33(0)1.4289.3122

Spain & Portugal ..... 31(0)320.239898

North Africa ..... 31(0)320.239892

Japan ..... 813.3269.9620

Australia ..... 61.2.9414.3663

Latin America ..... 001.612.820.5200

You may also call toll free in the following countries:

Australia ..... 1.800.806.944

Austria ..... 0800.8582

Belgium ..... 0800.1.7414

Brazil ..... 000.817.965.5340

China ..... 10800.610.0036

Germany ..... 0130.839708

Guam ..... 1888.249.6392

Hong Kong ..... 800.96.8444

Indonesia ..... 001.803.61608

Ireland ..... 1.800.626.104

Italy ..... 1768.78441

Japan ..... 0120.387737

Malaysia ..... 1800.80.0508

Mexico ..... 95.800.332.1034

Netherlands ..... 0800.022.75.84

New Zealand ..... 0800.44.1689

Philippines ..... 1.800.1.611.0126

Singapore ..... 800.616.1132

South Korea ..... 007.8611.3095

Switzerland ..... 0800.556.966

Taiwan ..... 008.061.1141

Thailand ..... 001.800.611.2401

UK ..... 0800.592.873

### IBM Learning Services Inquiry Centers

Australia ..... 1.800.801.088

Austria ..... 43(0)1.211.45 Ext. 6140

Belgium ..... 32(0)2.655.5214

China ..... 86(021)6280.2288x2168

..... 86(021)6437.6677x3368

Denmark ..... 45(0)4523.3000

Finland ..... 358(9)459.4444

France ..... 33(0)5.56.29.53.48

*Bordeaux* ..... 33(0)3.20.45.52.98

*Lille* ..... 33(0)4.72.29.42.90

*Lyon* ..... 33(0)2.40.41.43.91

*Nantes* ..... 33(0)4.92.11.88.17

*Nice* ..... 33(0)4.91.22.44.64

*Marseille* ..... 33(0)4.67.34.61.43

*Montpellier* ..... 33(0)1.4914.5252

*Paris* ..... 33(0)3.88.37.43.18

*Strasbourg* ..... 33(0)5.62.16.53.63

*Toulouse* ..... 49(0)211.476.1403

Germany ..... 30(0)1.995.3302

Greece ..... 852.2825.7800

Hong Kong ..... 39(0)1.67017.001

Italy ..... 972.3.6978926

Israel ..... 31(0)20.513.3940

Netherlands ..... 47(0)6699.8299

Norway ..... 351(0)1.7915669

Portugal ..... 27.11.302.6655

South Africa ..... 82.2.828.0706

South Korea ..... 34(0)1.397.5573

Spain ..... 46(0)879.34.408

Sweden ..... 41(0)844.80.3232

Switzerland ..... 886(02)2719.3299

Taiwan ..... 90(0)212.280.0900

Turkey ..... 44(0)345.62.60.31

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