IBM

Transaction Processing 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 role 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, operator, 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

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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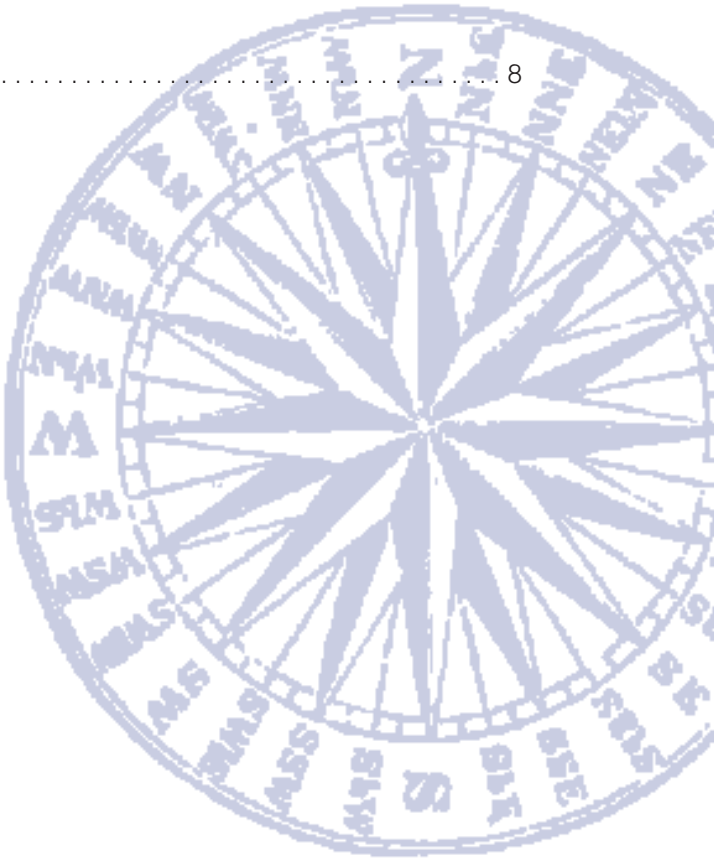

Transaction Server certification roles are designed for professionals who provide planning, installation, configuration and problem determination using Transaction Server on platforms such as AIX, OS/2 and Windows NT* including the CICS Clients.

IBM Certified Specialist
CICS Transaction Server for OS/2 Warp

Specialist

Certification Requirement: 1 Test

Role Description:

IBM CS - CICS Transaction Server for OS/2 Warp: If you perform planning, installation and configuration, and problem determination tasks, as well as some application design, you may benefit from this certification role. This one-test certification is currently offered on the OS/2 platform. You should have knowledge of CICS fundamentals, basic communications (TCP/IP, SNA, etc.), OS/2 Warp Server, and have experience with CICS programming.

Recommended Prerequisites:

- Knowledge of OS/2 Warp Server
- Knowledge of CICS fundamentals
- Knowledge of basic communications (TCP/IP, SNA, etc.).
- Experience with CICS programming

Core Requirement (1 Test):

Test 520

CICS Transaction Server for OS/2 Warp

Benefits:

- *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 TXSeries Encina Monitor

Specialist

Certification Requirement: 1 Test

Benefits:

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

Recommended Prerequisites:

- Familiarity with UNIX and/or Windows NT
- Familiarity with either C or C++ program development
- Completion of recommended self-study and classroom education or equivalent experience

Core Requirement (1 Test):

Test 524

TXSeries Encina Monitor Implementation

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 TXSeries CICS Monitor

Specialist

Certification Requirement: 1 Test

Benefits:

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

Recommended Prerequisites:

- Familiarity with UNIX and/or Windows NT
- Familiarity with either C or C++ program development
- Completion of recommended self-study and classroom education or equivalent experience

Core Requirement (1 Test):

Test 523

TXSeries CICS Monitor Implementation

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 Transaction Processing Certifications

Experience is essential for successful completion of certification exams. Education is not required, although the following course 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. Call your business partner program for more information.*

Test Number	Course Title	Duration	Course No.
Test 520	**Introduction to CICS** This course describes the main concepts and facilities of CICS.	2 Days	**CI01 (WW)** **CI010 (US)**
	CICS Application Programming I This course teaches how to code and debug CICS application programs written in COBOL or PL/I. The class contains extensive computer exercises and applies to the entire CICS family of products.	4.5 Days	**CI17 (WW)** **CI171 (US)**
	CICS Application Programming II This course teaches how to code advanced CICS application commands in a COBOL program. It covers menu-driven applications, online printing, and field-level help.	4.5 Days	**CI18 (WW)** **CI181 (US)**
	CICS OS/2 Administration and Design Workshop This class teaches how to implement CICS OS/2 in a client/server environment. It includes instructions for establishing security, recovery application design, and problem determination procedures for CICS OS/2. Hands-on labs and classroom exercises provide practice in CICS OS/2 installation and tailoring.	3.5 Days	**CE75 (WW)** **U3936 (NA)**
Test 523	A basic working knowledge of DCE is required. To help you gain that knowledge, the following self-study computer-based training (CBT) courses are offered by Transarc, a wholly-owned IBM company. To order a CBT or for additional information, please visit their website: http://www.transarc.com/dfs/public/www/htdocs/.hosts/external/Services/Catalog/index.html		
	Using DCE (CBT) This multimedia CBT course provides students with the training and preparation required to use a DCE application. Students learn fundamental DCE concepts and commands, including an introduction to the OSF DCE components relevant to users of DCE applications. This highly interactive course simulates a real DCE environment to provide the equivalent of hands-on exposure to DCE and DCE application. As a result, students become familiar with DCE concepts in a safe and friendly environment.	3 Hours	
	DCE Concepts (CBT) This course highlights the benefits of distributed computing through multimedia computer-based training (CBT). It explains how DCE plays a vital role in the overall architecture by providing a seamless environment where applications may span systems transparently. Students gain a coherent view of all DCE concepts and learn about the components of DCE. Numerous illustrations help students understand how these components fit together. Throughout the course, the advantages and disadvantages of DCE are discussed.	5-6 Hours	
	DCE Administration (CBT) This course covers core DCE administration concepts through multimedia computer-based training (CBT). The course introduces the components of the Security Service in terms of working with principals, groups, organizations and accounts. It describes the Cell Directory Service (CDS) structure, including directories and clearinghouses, and discusses how to establish a Distributed Time Service (DTS) configuration across multiple LAN or WAN segments. Students learn core commands used in day-to-day DCE administration as well as more complex tasks such as connecting cells, routine maintenance tasks and programming. Review tests are administered to help ensure the learning process has been successful.	16-24 Hours	
	AND		
	Introduction to CICS This course describes the main concepts and facilities of CICS.	2 Days	**CI01 (WW)** **CI010 (US)**

NA = North America US = United States WW = Worldwide

Note: Course availability is subject to change. Class attendance does not guarantee that the candidate will pass certification testing. IBM courses are recommended but not required to take certification exams.

Courses for Transaction Processing Certifications

Experience is essential for successful completion of certification exams. Education is not required, although the following course 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. Call your business partner program for more information.*

Test Number	Course Title	Duration	Course No.
Test 523 (cont'd)	**AND**		
	CICS Application Programming I This course teaches how to code and debug CICS application programs written in COBOL or PL/I. The class contains extensive computer exercises and applies to the entire CICS family of products.	4.5 Days	**CI17 (WW)** **CI171 (US)**
	AND		
	TXSeries: CICS for Windows NT and it's use as a Gateway The purpose of this course is to teach you how to set up a Transaction Server (CICS Component), running on a Windows NT Server, to act as a CICS Host Gateway.	3 Days	**CI66 (WW)** **CI660 (US)**
	or		
	TXSeries: CICS for AIX and it's use as a Gateway The purpose of this course is to teach the student how to set up a Transaction Server (CICS), running on an AIX Server, to act as a CICS Host Gateway.	3 Days	**CI67 (WW)** **CI670 (US)**
	ALSO USEFUL:		
	Encina Monitor System Administration This course introduces the concepts behind recoverable, transactional applications and describes how Encina® implements these concepts. Students learn how to use Enconsole to construct an Encina Monitor cell, and to configure and run applications in the Monitor environment. Students also learn how to back up and restore Encina-based resource managers, handle essential management of storage and perform routine maintenance of a Monitor cell. This course is based on a Monitor application and makes extensive use of diagrams, output and other illustrations.	3 Days	*
Test 524	In addition to the three DCE CBT courses for Test 523:		
	Combined DCE/Encina System Administration This course introduces the concepts behind recoverable, transactional applications and describes how Encina implements these concepts. Students learn how to use Enconsole to construct an Encina Monitor cell, and to configure and run applications in the Monitor environment. Students also learn how to back up and restore Encina-based resource managers, handle essential management of storage and perform routine maintenance of a Monitor cell. The course is based on a Monitor application and makes extensive use of diagrams, output and other illustrations. Before taking this course, students should have experience with DCE Secure Core system administration. Students will also benefit from experience in programming DCE or Encina applications.	5 Days	*
	AND		
	Advanced Troubleshooting in the DCE and Encina Environment This course discusses the issues in debugging and troubleshooting applications in a distributed environment. Common problems encountered by users of DCE and Encina will be discussed along with tools and techniques useful for diagnosing these problems. The modular nature of the products will be discussed, concentrating on the components and their interactions.	3 Days	*

NA = North America US = United States WW = Worldwide

* This course is available from Transarc. For course schedules and enrollment, please visit the Transarc Web site: http://www.transarc.com/dfs/public/www/htdocs/.hosts/external/Services/Catalog/index.html

Note: Course availability is subject to change. Class attendance does not guarantee that the candidate will pass certification testing. IBM courses are recommended but not required to take certification exams.

Courses for Transaction Processing Certifications

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- *Specific education programs and promotions may be available for IBM Business Partners. Call your business partner program for more information.*

Test Number	Course Title	Duration	Course No.
Test 524 (cont'd)	**ALSO USEFUL:**		
	DCE Programming I This course teaches the concepts behind distributed computing and the essential components of the DCE Secure Core from a developer's perspective. Students learn to use DCE programming interfaces to write applications that take advantage of DCE facilities. The course covers the tasks necessary to writing a complete client/server application that uses all of the fundamental DCE services. Significant time is devoted to hands-on labs, which reinforce the concepts addressed during the lecture.	3 Days	*
	Programming with the Encina Monitor in C This course helps students learn how to write Encina® Monitor-based client and server applications in C. The course introduces transactions, the notion of recoverable servers and discusses how to use XA-compliant databases in applications. This course covers the writing of a complete Monitor application with several variations. Both the Transactional-C and TX interfaces are covered for managing transactions, and labs provide students with an opportunity to actively reinforce these concepts.	2.5 Days	*

NA = North America US = United States WW = Worldwide

* This course is available from Transarc. For course schedules and enrollment, please visit the Transarc Web site: http://www.transarc.com/dfs/public/www/htdocs/.hosts/external/Services/Catalog/index.html

Note: Course availability is subject to change. Class attendance does not guarantee that the candidate will pass certification testing. IBM courses are recommended but not required to take certification exams.

Publications for Transaction Processing Certifications

To order a publication, refer to the IBM Direct publications catalog on the Internet at http://www.elink.ibmlink.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).

Test Number	*Publication Title*	*Order No.*
Test 520	**CICS Transaction Server for OS/2 Warp Version 4.1: Quick Beginnings** This book guides you through the steps necessary to install a simple CICS Transaction Server production environment with a CICS for OS/2 server and a CICS Client for OS/2 or a CICS Client for WIndows NT connected via TCP/IP or NetBIOS.	**GC33-1674**
	CICS for OS/2 Version 3.1 Installation This book gives detailed information about how to install CICS for OS/2. It is intended for experience users of the product, for example, those migrating from a previous release.	**GC33-1580**
Test 523, 524	**TXSeries Concepts and Facilities** This book provides an overview of IBM TXSeries. It introduces the concepts and terminology used in transaction processing and describes the services and components of TXSeries. It also describes the factors involved in choosing transaction processing components and contains example TXSeries configurations.	**GC33-1878**
Test 524	The following White Papers offer general introduction material. They are available on the Internet at http://www.transarc.com/Library/whitepapers/index.html	
	Introduction to DCE and Encina	
	Extending DCE for Business-Critical Computing with the Encina Monitor	

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.ibmlink.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

Telephone:

English 1.800.426.8322
. . . . . or 44(0)1475.557.040
French . . . . . 44(0)1475.557.041
German . . . . . 44(0)1475.557.042
Italian . . . . . 44(0)1475.557.043
Spanish . . . . . 44(0)1475.557.044

IBM Learning Services

United States and Canada:
. . . . . 1.800.426.8322(1.800.IBM.TEACH)

Sylvan Prometric Testing Centers

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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
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Latin America 001.612.820.5200

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Switzerland. 0800.556.966
Taiwan 008.061.1141
Thailand 001.800.611.2401
UK 0800.592.873

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. . . . . 86(021)6437.6677x3368
Denmark. . . . . 45(0)4523.3000
Finland . . . . . 358(9)459.4444
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South Korea 82.2.828.0706
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