

# BMC AMI DevX Code Debug for CICS 17: Extended Facilities Using 3270 (WBT)


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Course Code: CPCD-EF32-C1700

Modality	Duration	Applicable Versions	Target Audience
Web-based Training (WBT)	2 Hour	17.02	<ul style="list-style-type: none"> <li>• Programmers</li> <li>• Developers</li> </ul>

## Course Overview

BMC AMI DevX Code Debug for CICS is an interactive debugging solution that enables developers to efficiently test and troubleshoot CICS application programs without making source code changes or impacting other users. It helps reduce the time and effort required to identify logic errors, data issues, and runtime problems during application execution.

This web-based course enables learners to build extended expertise in using BMC AMI DevX Code Debug for CICS to analyze and troubleshoot complex CICS applications in live environments. Through guided, interactive demonstrations, learners work with Db2 and MQ debugging, CICS storage management and protection, sourceless debugging, and remote task monitoring—empowering them to isolate root causes, understand application behavior across interfaces, and resolve critical issues with confidence.

In addition to English, the textual content of this course is available in Chinese (Simplified), French, German, Italian, Japanese, Korean, Portuguese (Brazil), and Spanish (Mexico).

## Prerequisites

- NA

## Recommended Trainings

- BMC AMI DevX Code Debug 17.x: Fundamentals Concepts (WBT)
- BMC AMI DevX Code Debug for CICS 17: Debugging Basics Concepts Using ISPF (WBT)

## Learning Objectives

- Use BMC AMI DevX Code Debug for CICS to debug complex CICS COBOL applications running in live environments.
- Debug applications that interact with Db2 by using Easy Queries, setting session attributes, handling long identifiers, and interpreting SQL codes and DSNB abends.
- Analyze and troubleshoot MQ-enabled applications by working with MQ File Utility, queues, messages, and MQ completion and reason codes.
- Set and manage breakpoints, traps, and Keeps on Db2- and MQ-specific data to monitor program execution.
- Access, analyze, and update CICS storage areas, tables, and control blocks during debugging sessions.
- Configure storage protection, manage storage violations, and apply region-wide and automatic storage protection settings.
- Apply sourceless debugging techniques, including PSEUDOSOURCE and Line Mode, to analyze applications without source code.
- Modify storage values and investigate program behavior when breakpoints are not available.
- Monitor and control remote and asynchronous CICS tasks using remote traps and session monitoring features.

## Course Modules

### Module 1: Debugging Facilities - External Data Sources

- Analyze the external data source of the debugging
- Design the Db2 Easy Query with session default attributes, edit the row and column, and build the specified table
- Analyze the impact of long identifiers on Db2 program debugging
- Use the debugging of Db2 COBOL programs with breakpoints in SQL code, DSNB abends, and SQL code
- Analyze and interpret MQ File Utility operations
- Understand the MQ debugging facilities

### Module 2: Managing and Protecting CICS Storage

- Access CICS storage areas to analyze data allocation and maintenance
- Display CICS storage using DSECTs for symbolic analysis
- Chain through CICS storage areas to identify pointer-related issues
- Display and review CICS table entries to understand control information
- Use the Select Address List to navigate previously viewed storage areas
- Set storage protection to prevent unintended updates during CICS program execution
- Allow controlled storage violations when required for valid testing scenarios
- Set region-wide storage protection to control how storage is accessed across the CICS region
- Enable automatic storage protection to ensure protection is applied consistently during test sessions
- Allow controlled storage violations when required to observe and analyze program behavior
- Define system labels and storage exceptions to identify CICS storage areas and allow approved updates without reporting violations
- Monitor storage violations to identify and analyze storage-related issues during execution
- Edit CICS table entries from the MEMORY DISPLAY screen
- Edit CICS table entries from the DSECTs screen using symbolic format

### Module 3: Sourceless Debugging

- Determine when to use sourceless debugging in Code Debug CICS
- Apply the PSEUDOSOURCE method for debugging without source code
- Prepare the environment for sourceless debugging in Code Debug CICS
- Analyze program execution using Line Mode

### Module 4: Monitoring Remote Tasks

- Set and view remote traps
- Defer remote trap selection
- Release trapped transactions
- View traps for Asynchronous Transactions

### Assessment

#### Discount Options

Have multiple students? Contact us to discuss hosting a private class for your organization.

Contact us for additional information 