ABSTRACT

BMC AMI DevX

BMC AMI DevX Code Coverage 17: Coverage Analysis Using Workbench for Eclipse (WBT)

Learning Path >

Course Code: CPCC-WECA-U1702

Modality	Duration	Applicable Versions	Target Audience
Web-based Training (WBT)	2 Hour	17.02	• Application Developers • Software Testers

Course Overview

BMC AMI DevX Code Coverage is an advanced analysis tool that helps identify which parts of an application have been executed during testing and debugging, highlighting areas that may require additional testing. It provides coverage reports and insights into statement execution, branch coverage, and testing gaps, helping teams assess test effectiveness and improve confidence in application quality.

This web-based course introduces learners to collecting and analyzing Code Coverage data through Workbench for Eclipse. Through guided demonstrations, learners explore Code Coverage concepts and architecture, collect coverage data using supported Code Debug environments, manage repositories, create and run report requests, and analyze coverage results using annotation listings and coverage measurements. These skills help learners identify untested code, make informed testing decisions, and improve application quality with greater confidence.

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

Prerequisites

- NA

Recommended Trainings

- BMC AMI DevX Code Coverage 17: Using Workbench for VS Code (WBT)

Learning Objectives

- Use BMC AMI DevX Code Debug for CICS to debug complex CICS COBOL applications running in live environments.
- Explain the purpose of BMC AMI DevX Code Coverage and how it helps identify tested and untested areas of an application.
- Describe the Code Coverage architecture and data flow, including its integration with supported Code Debug environments.
- Establish a mainframe connection and create and manage a Code Coverage repository using Workbench for Eclipse.
- Collect Code Coverage data during application testing and debugging using supported Code Debug environments.
- Create, edit, duplicate, and delete report requests to generate Code Coverage reports.
- View and interpret Annotation Listings to identify executed and unexecuted code.
- Export Annotation Listings to PDF for review and sharing.
- Analyze coverage measurements, including statement and branch coverage, to identify testing gaps and areas that may require additional testing

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Course Modules

Module 1: Preparing for and collecting Code Coverage

- Explain Code Coverage, its benefits, and its role in the software testing lifecycle
- Interpret Code Coverage data and associated terminology
- Describe the BMC AMI DevX Code Coverage architecture and coverage data flow
- Create a repository for collecting Code Coverage data
- Describe the Code Coverage collection process and the coverage data generated
- Collect Code Coverage data using the demonstrated workflow

Module 2: Creating Coverage Analysis Requests

- Explain coverage analysis fundamentals and the purpose and components of report requests
- Organize coverage reports using appropriate report criteria and summary levels
- Create, view, edit, duplicate, and manage Code Coverage report requests
- Analyze statement and branch coverage using coverage counts and percentages
- Compare coverage metrics to assess test completeness
- Identify coverage gaps using Code Coverage report information

Module 3: Analyzing Code Coverage Results

- Interpret annotated listings and Code Coverage indicators
- Analyze executed and unexecuted code using the Annotations view
- Investigate coverage gaps to identify additional testing opportunities
- Create and export annotated listings for coverage analysis

Module 4: Refining and Applying Coverage Analysis

- Apply Code Coverage filters to refine coverage analysis
- Combine report criteria and filters to perform targeted coverage analysis
- Analyze Code Coverage results across tests and programs
- Apply coverage findings to guide testing activities

Module 5: Additional Considerations in Code Coverage

- Analyze the impact of optimization on Code Coverage
- Apply Code Coverage with Test Data Optimization (TDO)
- Use Code Coverage across different testing scenarios
- Identify and avoid common Code Coverage mistakes

Course Assessment

Discount Options

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

Contact us for additional information

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