

Introduction to ClearCase

This class teaches the fundamental skills that streamline and simplify the software development process through the use of the ClearCase tool. Students will learn the concepts and specific usage of ClearCase that positively affect development teams and accelerate development cycles. This class covers both UCM and Base ClearCase.

AUDIENCE

This course is intended for first-time ClearCase users requiring a practical introduction to the ClearCase commands and operations.

OBJECTIVES

1. Learn to work comfortably and unassisted with Rational's ClearCase tool
2. Understand all major functionality of ClearCase, and how to get help
3. Understand best practices in collaborative, parallel development environments
4. Perform check-in/check-out, merging of files and directories, and navigate version trees
5. Use command line interface and GUI tools
6. Understand the major integrations with Commercial IDE's such as Visual Studio, VB, C++

TOPICS COVERED

1. Use of ClearCase in projects
2. Taking advantage of UCM
3. How to create policy and structures for automated software development processes

PREREQUISITES

Familiarity with either Windows 95/98/NT/Win2000 or UNIX operating systems. Basic understanding of software development lifecycle methods. Familiarity with version control concepts is beneficial, but not critical.

DURATION

2 days

OUTLINE

1. CLEARCASE OVERVIEW
 - SCM Best Practices
 - ClearCase Structure
 - Workspace Management
2. CLEARCASE ENVIRONMENT
 - Base ClearCase vs. UCM
3. CLEARCASE INTERFACE
 - Understanding VOBs
 - Using Views
 - Dynamic and Snapshot views
 - ClearCase Administrator Console
 - ClearCase Explorer

- GUI Online Help
 - Using the CLI Cleartool
 - Lab 1: Getting Started
- 4. FINDING YOUR WAY IN CLEARCASE
 - Creating a VOB
 - Creating Views
 - Understanding Streams
 - Version Control in ClearCase
 - Version Trees
 - Demonstration/Lab - Working with Views and VOBs
- 5. VERSION CONTROL OF FILES
 - ClearCase Checkout/Checkin Model
 - Checking Out a File
 - Working With Checked Out Elements
 - Working with Hijacked Files
 - Comparing Files Graphically
 - Checking In Files
 - Listing an Element's History
- 6. VERSION CONTROL OF DIRECTORIES
 - Directory Versioning
 - Adding Directories to Source Control
 - Check-In/Check_Out of Directories
 - Working With Elements Within Directories
 - Lost And Found
 - Lab 2: Development with ClearCase
- 7. CLEARMAKE
 - Build Management and Derived Objects
 - Advantages of ClearMake
- 8. CREATING LABELS
- 9. WORKING WITH CONFIGURATION SPECIFICATIONS
 - Configuration Specification Definition
 - Displaying Configuration Specifications
- 10. BRANCHING WITH CLEARCASE
 - Parallel Development
 - Branching in ClearCase
 - Making a Branch
 - Checking in on a Branch
- 11. MERGING WITH CLEARCASE
 - Merging with ClearCase
 - Trivial Merges
 - Merging With Conflicts
 - Using ClearCase Merge Manager
 - Merging Using the Version Tree
 - Lab 3: Working in Teams

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2005 Training Stats:

2,618 students
197 courses delivered
121 companies

Why IconATG?

- < Thirteen years of experience mentoring, consulting, and developing training programs for large IT organizations
- < Full software lifecycle curriculum of cost-effective, tailored courses
- < Seasoned instructors qualified through hands-on experience
- < Experienced mentors and consultants with demonstrated project success
- < Proven experience tailoring and extending the Unified Process and Agile/Scrum Processes

IconATG is a thought-leader in information technology training, mentoring and consulting. Our training staff has successfully developed cost-effective, customized IT training programs and we have taught thousands of students through our formal courseware and hands-on workshops. We offer introductory to advanced courses in focused disciplines of the full software lifecycle including the Unified Process (RUP), Agile, UML, requirements and use cases, usability, project management and architecture (SOA/MDA). Our instructors' real-world expertise is incorporated in each of our classes, giving your team the practical skills to be more productive when developing today's most demanding applications.

Our mentors and consultants have worked with project teams to apply new technologies and processes in their organizations to ensure project success. Full lifecycle experience allows IconATG consultants to deliver expert knowledge in specific disciplines while providing an understanding of the workflow throughout the lifecycle. Mentors and consultants actively work with the project team helping them develop skills and address problems through facilitation, demonstration, co-development, review, observation and advice. Mentoring solidifies knowledge gained through training by applying the concepts learned in class. Icon's extensive project experience has shown that teams better understand new processes and techniques by applying them with a seasoned mentor. IconATG is that critical resource; we can help ensure your success.