Training: Micro Focus
ALM120 - Application Lifecycle Management Essentials

TRAINING GOALS:

This course provides the tools you need to implement and use Application Lifecycle Management (ALM) 12.5. Students learn how to manage quality information throughout the development cycle, from construction requirements, designing and executing tests, through monitoring defects. The hands-on labs for this course use version 12.5 of the ALM software.

Upon successful completion of this course, you should be able to:

- Plan for ALM implementation
- Define Application Lifecycle Management (ALM)
- Create releases and cycles and construct requirements
- Analyze risks associated with requirements
- Organize subjects and tests in a test plan tree
- Design and create test plans
- Generate test scripts from design steps
- Create test sets
- Execute manual and automated tests
- Use Sprinter on manual tests
- Record and track test execution results
- Log and manage defects
- Use version control to keep track of changes
- Create and manage libraries
- Create and compare baselines
- Import and export from Microsoft Excel
- Generate reports and graphs using the dashboard
- Work with cross-project customization and Business Process Modeling (BPM)

Audience/Job Roles:

- Quality assurance engineers
- Quality testers
- Project manager

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- Quality Center/ALM Administrators
- Quality Assurance Leads
- Other Quality Center/ALM users responsible for managing projects, users and workflow customizations

CONSPECT:

- Course Overview
  - Explain the daily classroom schedule and structure
  - Review the overall course objectives
  - Review the Virtual Instructor-Led Training (VILT) connection
- Introduction to Application Lifecycle Management
  - Describe the Application Lifecycle Management (ALM) product
  - Describe the ALM hierarchy and roadmap
  - Navigate through the ALM
  - Describe the key features and benefits of ALM
  - Identify what’s new in ALM version 12.5
  - Identify additional helpful resources
- Working with Releases
  - Identify the relationship between a line of business (LOB), applications, releases, and cycles
  - Create a release tree
  - Recognize the significance of assigning requirements to releases and cycles
  - Recognize the significance of assigning tests to releases and cycles
- Project Planning and Tracking
  - Define Project Planning and Tracking (PPT)
  - Understand the terminology used in PPT
  - Work with PPT, including:
  - Define scope items
  - Assign content to scope items
  - Define and configuring milestones
  - Assign and configure Key Performance Indicators (KPIs)
  - Create a custom KPI
  - Calculate KPIs
  - View the scorecard
  - Use PPT best practices
  - Troubleshoot PPT

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- Working with Requirements and Analyzing Risk
  - Specify requirements
  - Identify the characteristics of a useful requirement
  - Add requirements to a project
  - Create a requirements tree
  - Assign requirements to releases and cycles
  - Add traceability links using traceability
  - Add traceability links between requirements
  - Perform risk analysis for requirements
- Test Planning
  - Organize subjects and tests in a Test Plan tree
  - Create tests that define the steps for testing an application
  - Use parameters in tests
  - Generate test scripts from design steps
  - Define test configurations
  - Generate a live analysis graph from a Test Plan tree
- Requirements Coverage
  - Create test coverage in the Requirements
  - Create requirement coverage in the Test Plan
  - Create requirement coverage using test configurations
  - Analyze cycle progress
  - Track cycle progress with the test set folders
- Executing Tests
  - Create and organize folders in a Test Sets tree
  - View all test runs for a project
  - Create test sets
  - Add tests and test configurations into test sets
  - Link test set folders to releases and cycles
  - Manage test execution flow and test dependencies
  - Execute manual and automated tests
  - Record and review the results of test executions
- Lab Management
  - Identify the motivation behind lab management
  - Identify the concepts of lab management
  - Manage lab resources
  - Schedule and execute tests

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- Describe Application Under Test (AUT) environments
- Build Verification
  - Describe Build Verification functionality
  - Create a Build Verification suite
  - Add functional test sets to the suite
  - Run the Build Verification suite
  - View test results
- Sprinter 12.x
  - Review and describe the manual test lifecycle
  - List Sprinter features and functionality
  - Use Sprinter
  - Author tests
  - Perform exploratory testing
  - Define storyboarding
  - Use Sprinter to log defects
- Tracking Defects
  - Log defects
  - Search and review defects
  - Track defects throughout their lifecycle
  - Associate defects with entities
- Version Control
  - Describe version control functionality
  - Check out entities
  - Check in entities
  - View version history
  - Compare versions
  - Promote an older version
- Library Management
  - Define a library
  - Define a baseline
  - Compare baselines
  - Pin a test set to a baseline
- Asset Sharing (Libraries)
  - Define an asset library
  - Import an asset library
  - Work in parallel with source and target projects

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    - Compare imported assets from the source or target
    - Synchronize assets
    - Define cross-project sharing
    - Share components
    - Use the ALM Synchronizer
    - Define a Hub project
    - Create user-defined fields
    - Explain the defect sharing workflow
    - Apply best practices for reusing assets
- Exporting from Excel to ALM
    - Identify the types of data that you can export to Quality Center
    - Install an add-in for Microsoft Excel to allow data to be exported to Quality Center
    - Format requirements, test plan, and defects data in Microsoft Excel files
    - Execute the Export wizard in Excel
    - Verify the exported data in Quality Center
- Reporting and Analysis
    - Describe reporting and analysis in ALM
    - Identify the features of the dashboard
    - Create dashboard folders and pages
    - Configure the dashboard
    - View a dashboard page
    - Generate reports and graphs
    - Analyze reports and graphs
    - Create and view project reports
    - Generate formatted project documentation and Excel reports
    - Share graphs that you can open without the ALM client
- Cross-Project Reporting
    - Define cross-project reporting
    - Enumerate the types of cross-project reports
    - Create, configure, and view cross-project graphs
    - Drill down to the graph records
    - Create project reports
    - Create a dashboard of cross-project graphs
    - Apply the best practices for cross-project reporting
    - Define Cross Project Business View Excel reports
    - Generate a Business View Excel report

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    - Explore and select projects on the HP ALM Excel Add-in tab
    - Work with the Configuration pane
    - Describe the Edit the Query dialog box
    - Work with the View options
    - Save a Business View Excel report
- Using ALM from A to Z
    - Use ALM from A to Z
- Appendix A: Business View
    - Identify the benefits of business views
    - Describe OOTB business views
    - Modify business views
    - Create new business views with Doctrine Query Language (DQL) functions
    - Build graphs using business views
- Appendix B: Working with ALM Performance Center 12.5
    - Describe the basic PC architecture and functionality
    - Identify the steps of the load testing process
    - Provide an overview of HP ALM PC sites
    - Explain roles and tasks of PC team members
    - Use enhanced mobile testing
    - Provision cloud hosts for performance testing
    - Use My Performance Center
    - Describe the Performance Application Lifecycle (PAL)
- Appendix C: Application Lifecycle Intelligence (ALI)
    - Provide predictability based on risk, stability, quality, and health metrics
    - Visualize change impact
    - Make critical decisions confidently
    - Provide a smooth transition of new applications into production
    - Tighten collaboration between QA and development teams

REQUIREMENTS:

To be successful in this course, you should have the following prerequisites or knowledge:

- Have working knowledge of Windows, websites, and browsers
- Understand the basic testing concepts

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Difficulty level

CERTIFICATE:

The participants will obtain certificates signed by Micro Focus (course completion).

This course prepares you also for such related Micro Focus certification exam: ALM120E-125 - Application Lifecycle Management Essentials 12.5 ASP EXAM

TRAINER:

Authorized Micro Focus Trainer

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