Integrity 10.1
Curriculum Guide
Live Classroom Curriculum Guide

- Requirements Engineering with Integrity 10.1
- Workflows and Documents with Integrity 10.1
- Test Management with Integrity 10.3
- SCCM with Integrity 10.4 for Basic Users
- SCCM with Integrity 10.4 for Advanced Users
Requirements Engineering with Integrity 10.1

Overview

Course Code: TRN-4100-T
Course Length: 1 Day

In this course, you will be introduced to the capabilities and concepts of documents, reuse, persistence, change management, versions, and baselines required for requirements authoring. After completing this course, you will be able to move beyond the basics of requirements authoring to manage your requirements throughout an application or product lifecycle. Concepts integral to requirements management including traceability, change management, requirements monitoring, and reuse are covered.

At the end of each module, you will complete a set of review questions to reinforce critical topics from that module. At the end of the course, you will complete a course assessment in Pro/FICIENCY intended to evaluate your understanding of the course as a whole.

Course Objectives

• Author and manage requirements within Integrity
• Create requirement document baselines and view historical documents
• Import and export requirements between Microsoft Word and Integrity
• Publish Integrity requirements to PTC Windchill
• Manage requirements within an application or product lifecycle
• Conduct impact analysis from a trace view
• Manage change throughout an application or product lifecycle
• Develop valuable metrics to monitor requirements
• Reuse requirements in different product families or variants
Prerequisites

- Workflows and Documents with Integrity 10, or equivalent

Audience

- This course is intended for requirements engineers, requirements analysts, product managers, project managers, directors of engineering, and product management. People in related roles will also benefit from taking this course.
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Course Content

Module 1. Introduction to Requirements Management Engineering
   i. Understanding Document Domains
   ii. Understanding Requirements Engineering
   iii. Understanding Integrity Requirements Engineering
   iv. Reviewing Requirements Engineering Architecture Components
   v. Understanding Integrity Documents

Knowledge Check Questions

Module 2. Documents and the Document View
   i. Understanding Document Types
   ii. Understanding Document Structure
   iii. Understanding Document Workflow
   iv. Importing ViewSets
   v. Using the Document Finder
   vi. Viewing Documents
   vii. Configuring Columns
   viii. Reviewing ID Columns
   ix. Understanding Document Item Fields
   x. Understanding Document Authorization and Permissions
   xi. Configuring General Document View Options
   xii. Configuring Other Document View Options
   xiii. Reviewing Document and Content Menus
   xiv. Reviewing the Section Column
   xv. Reviewing the Row Header
   xvi. Reviewing Virtual Rows
   xvii. Reviewing Subdocument Indicators

Knowledge Check Questions

Module 3. Requirements Authoring and Monitoring
   i. Creating a Document
   ii. Using Document Column Contexts
   iii. Categorizing Content
   iv. Adding Content
   v. Saving and Reverting in the Document View
   vi. Using Cut, Copy, and Paste
   vii. Modifying Content
   viii. Working with Subdocuments
   ix. Using Document Templates
   x. Baselining Documents
   xi. Viewing Documents and Items Historically
   xii. Creating Comparison Reports
xiii. Understanding Change Requests
xiv. Reviewing an Integrity Project Item
xv. Understanding Preconfigured Reports, Charts, and Dashboards

Knowledge Check Questions

Module 4. Integrations
   i. Editing in Microsoft Word
   ii. Exporting in Word
   iii. Importing in Word
   iv. Re-importing Content
   v. Understanding the Windchill Integration
   vi. Understanding Integrity to Windchill Publish
   vii. Understanding Integrity Document Publish

Knowledge Check Questions

Module 5. Project Initiation
   i. Creating an Integrity Project
   ii. Creating a Project Backing Item

Knowledge Check Questions

Module 6. Advanced Requirements Authoring and Monitoring
   i. Editing Significant Edit Fields
   ii. Comparing History, Significant Edits, and Baselines
   iii. Revisioning Items

Knowledge Check Questions

Module 7. Change Management
   i. Using the Change Request to Authorize Changes
   ii. Understanding the Allow Edits Property
   iii. Understanding Hierarchical Editability

Knowledge Check Questions

Module 8. Traceability
   i. Understanding the Importance of Traceability
   ii. Reviewing Impact Analysis
   iii. Understanding Traces
   iv. Understanding Trace Relationships
   v. Creating a Trace
   vi. Viewing Traces
   vii. Viewing Trace Status
   viii. Identifying Suspect Relationships
   ix. Reviewing Change Notification

Knowledge Check Questions
Module 9. Tracing to Source
   i. Understanding Source Traces
   ii. Using the Source Trace Viewer

Knowledge Check Questions

Module 10. Requirements Publishing and Reuse
   i. Understanding Reuse
   ii. Using Reference Mode
   iii. Using Paste Special Reference Mode Option
   iv. Branching
   v. Using Branch Document and Reference Mode
   vi. Using Trace Propagation
   vii. Using Trace Propagation — Suspect Relationships

Knowledge Check Questions
Workflows and Documents with Integrity 10.1

Overview

Course Code: TRN-4101-T
Course Length: 1 Day

In this course, you will learn about how Integrity 10 Workflows and Documents enable you to use Integrity to perform change management. You will learn the basics of how to work with Integrity items, queries, and workflows to control and streamline the development lifecycle. You will review Integrity reports, charts, dashboards, and E-mail notifications, which can provide real-time data, metrics, and drill-down capabilities.

At the end of each module, you will complete a set of review questions to reinforce critical topics from that module. At the end of the course, you will complete a course assessment in Pro/SCIENCY intended to evaluate your understanding of the course as a whole.

Course Objectives

- Provide an overview of basic workflow and document concepts
- Import a ViewSet
- Create and edit process items
- Work with Integrity items in the document view
- Resolve conflict messages when handling items simultaneously edited by multiple users
- Configure queries and column sets
- Filter and view project data based on specific categories
- Find items based on a search phrase
- Create custom buttons to output data to commonly used external applications
- Set up E-mail notifications
- Relate items to one another
- Display workflow and document item information in a report format
- Graphically render workflow and document information in a chart format
Prerequisites

• None

Audience

• This course is intended for Integrity users who submit, edit, and view items as well as those who create reports and charts. People in related roles will also benefit from taking this course.
# Agenda

## Day 1

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Course Content

Module 1. Navigating Integrity
   i. Navigating the Web Interface
   ii. Navigating the Client GUI Interface
   iii. Setting Client Preferences

   Knowledge Check Questions

Module 2. Locate and View
   i. Importing ViewSets
   ii. Activating the Integrity Project Filter
   iii. Configuring Columns
   iv. Using Embedded Item View
   v. Configuring View Options
   vi. Customizing a ViewSet
   vii. Creating Custom Actions
   viii. Setting Up E-mail Notifications

   Knowledge Check Questions

Module 3. Change Management
   i. Understanding Lifecycle Management Capabilities
   ii. Understanding Workflow

   Knowledge Check Questions

Module 4. Items
   i. Understanding Items and Item Types
   ii. Creating an Item
   iii. Detecting Duplicate Items
   iv. Understanding Fields
   v. Working with Rich Content
   vi. Adding Attachments
   vii. Editing an Item
   viii. Understanding Edit View Options
   ix. Reviewing Tabs
   x. Viewing Item History
   xi. Resolving Item Edit Conflicts
   xii. Understanding Relationships
   xiii. Creating Relationships
   xiv. Configuring Relationship View Settings
   xv. Using Field Filtering
   xvi. Linking an Item to the Source Code Project
   xvii. Using SCM Project Metrics

   Knowledge Check Questions
Module 5. Queries
   i. Understanding Queries
   ii. Managing Queries
   iii. Running Queries
   iv. Applying a Query Filter
   v. Modifying a Quick Query
   vi. Using the Query Builder
   vii. Creating a Named Query
   viii. Modifying a Named Query
   ix. Using Text Search
   x. Reviewing Favorites
   xi. Exporting Query Results to Microsoft Excel

Knowledge Check Questions

Module 6. Reports
   i. Understanding Reports
   ii. Managing Reports
   iii. Running Reports
   iv. Creating Reports
   v. Editing Reports

Knowledge Check Questions

Module 7. Charts
   i. Understanding Chart Types
   ii. Managing Charts
   iii. Running Charts
   iv. Creating Charts
   v. Editing Charts

Knowledge Check Questions

Module 8. Dashboards
   i. Understanding Dashboards
   ii. Managing Dashboards
   iii. Running Dashboards
   iv. Creating Dashboards
   v. Editing Dashboards

Knowledge Check Questions
Test Management with Integrity 10.3

Overview

Course Code | TRN-4102-0
Course Length | 1 Day

In this course, you will learn how Test Management for Integrity 10.3 enables you to use Integrity to plan, develop, manage, and monitor your testing activities. You will learn how to create plans, tests, and objectives as well as execute tests, record results, and conduct test coverage analysis. Defect discovery, verification, and resolution will also be covered.

At the end of each module, you will complete a set of review questions to reinforce critical topics from that module. At the end of the course, you will complete a course assessment in Pro/FICIENCY intended to evaluate your understanding of the course as a whole.

Course Objectives

- Define Test Management terminology
- Author and manage tests within Integrity
- Create a project to monitor testing progress
- Create a test plan and a series of test objectives
- Update test objectives with test plans
- Create, copy, and replace test steps
- Determine test step editability
- Create and execute test sessions
- Use the test result editor
- Resolve parameters
- Link defects to failed test cases
- Verify defect resolution
Prerequisites

• Workflows and Documents with Integrity 10.1

Audience

• This course is intended for Integrity users who author, manage, or execute tests. People in related roles will also benefit from taking this course.
### Agenda

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Module 1. Test Management Basics
  i. Understanding Test Management
  ii. Understanding Integrity Test Management
  iii. Understanding Integrity Test Management Artifacts
  iv. Understanding the Integrity Test Management Process
  v. Understanding Parameters

Knowledge Check Questions

Module 2. Project Initiation
  i. Creating an Integrity Project for Test Management
  ii. Creating a Project Backing Item

Knowledge Check Questions

Module 3. Test Planning
  i. Understanding the Test Planning Process
  ii. Creating a Test Plan
  iii. Defining Test Objectives

Knowledge Check Questions

Module 4. Test Authoring
  i. Understanding Test Development
  ii. Creating a Test Suite
  iii. Creating Test Cases
  iv. Adding Test Steps
  v. Determining Test Step Editability
  vi. Sharing Test Steps
  vii. Updating Test Objectives
  viii. Creating Parameters
  ix. Using Test Groups

Knowledge Check Questions

Module 5. Traceability in Test Management
  i. Understanding the Importance of Traceability
  ii. Reviewing Impact Analysis in Test Management
  iii. Understanding Traces in Test Management
  iv. Understanding Trace Relationships in Test Management
  v. Understanding the Allow Traces Property
  vi. Creating a Trace in Test Management
  vii. Viewing Traces in Test Management
  viii. Viewing Trace Status in Test Management
  ix. Identifying Suspect Relationships in Test Management
  x. Reviewing Change Notification
Knowledge Check Questions

Module 6. Test Monitoring
   i. Conducting Test Coverage Analysis
   ii. Reviewing Test Metrics
   iii. Viewing Test Results

Knowledge Check Questions

Module 7. Test Execution Planning
   i. Understanding Test Execution Planning
   ii. Creating a Test Session
   iii. Adding Tests to a Test Session
   iv. Setting the Tests As Of Date

Knowledge Check Questions

Module 8. Test Execution
   i. Understanding Test Execution
   ii. Setting the Session Type
   iii. Using the Test Result Editor
   iv. Resolving Parameters in the Test Result Editor

Knowledge Check Questions

Module 9. Defect Management
   i. Understanding Defect Management
   ii. Discovering Defects
   iii. Resolving Defects
   iv. Verifying Defects
   v. Monitoring Defects

Knowledge Check Questions

Module 10. Test Management Reuse
   i. Understanding Reuse in Test Management
   ii. Using Reference Mode in Test Management
   iii. Using Paste Special Reference Mode Option
   iv. Branching in Test Management
   v. Using Branch Document and Reference Mode in Test Management
   vi. Using Trace Propagation in Test Management
   vii. Using Trace Propagation — Suspect Relationships

Knowledge Check Questions
SCCM with Integrity 10.4 for Basic Users

Overview

Course Code: TRN-4103-T
Course Length: 1 Day

In this course, you will learn about Integrity Software Change and Configuration Management 10.4. You will understand how to accomplish basic version control and configuration management skills. You will learn how to work with sandboxes, members, and change packages. Branching, parallel, and variant development will also be introduced.

At the end of each module, you will complete a set of review questions to reinforce critical topics from that module. At the end of the course, you will complete a course assessment in Pro/FICIENCY intended to evaluate your understanding of the course as a whole.

Course Objectives

- Understand Basic Configuration Management terms and concepts
- Creating a personal workspace using Sandboxes
- Check out, edit files and check back in files
- Identify different types of locks
- Identify Delta Symbols
- Resolve file differences
- Work within parallel development environment
- Create branched versions of members
- Keeping track of related code changes by using Change Packages
- Locate Members and Subprojects by name
Prerequisites

- None

Audience

- This course is intended for Integrity users who develop code within a controlled configuration management environment. People in related roles will also benefit from taking this course.
# Agenda

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   i. Understanding Version Control
   ii. Understanding Configuration Management
   iii. Understanding Integrity Software Change and Configuration Management
   iv. Understanding Working Files
   v. Understanding the Integrity Development Cycle
   vi. Understanding Change Packages
   vii. Reviewing the Developer 10 ViewSet

Knowledge Check Questions

Module 2. Working with Software Change and Configuration Management Sandboxes
   i. Understanding Sandboxes
   ii. Creating a Sandbox
   iii. Understanding Members
   iv. Understanding Member Revisions
   v. Viewing Member History
   vi. Understanding Member History Contents
   vii. Identifying Non-Members
   viii. Reviewing Revision Metadata
   ix. Understanding Change Package Member Operations
   x. Integrating Change Packages with Integrity Items
   xi. Revising Members
   xii. Identifying Types of Locks
   xiii. Submitting a Change Package
   xiv. Dropping a Sandbox
   xv. Importing a Sandbox

Knowledge Check Questions

Module 3. Working with Members
   i. Adding Members
   ii. Viewing the Graphical Member History
   iii. Differencing Member Revisions
   iv. Using the Annotated Revision View
   v. Locating Members and Subprojects
   vi. Moving Members
   vii. Renaming Members
   viii. Reverting Members
   ix. Identifying Deltas
   x. Using Refresh (F5)
   xi. Using Resynchronize (F6)

Knowledge Check Questions
Module 4. Working with Change Packages
  i. Searching for Change Packages
  ii. Filtering Change Packages
  iii. Understanding Change Package Entry Categories
  iv. Working with Change Package Reviews
  v. Resynchronizing by Change Package

Knowledge Check Questions

Module 5. Parallel Development
  i. Understanding Member Branching
  ii. Understanding Revision Numbering
  iii. Performing Parallel Development by Merging with Member Revision
  iv. Performing Parallel Development by Branching and Merging

Knowledge Check Questions

Module 6. Variant Development
  i. Diverging Development
  ii. Creating Development Paths
  iii. Understanding Variant Projects
  iv. Creating Variant Sandboxes
  v. Creating a Build Sandbox
  vi. Retargeting a Sandbox

Knowledge Check Questions

Module 7. IDEs
  i. Reviewing SCCM Supported Integrated Development Environments (IDEs)
  ii. Understanding the Eclipse Integration
  iii. Reviewing the Integrity Eclipse Interface
  iv. Creating a Sandbox within Eclipse
  v. Checking In and Out within Eclipse
  vi. Checkpointing within Eclipse

Knowledge Check Questions
Overview

In this course, you will take an in depth look at Integrity Software Change and Configuration Management 10.4 such that you will understand how to accomplish advanced version control and configuration management. You will continue to work with development paths and sandboxes with a key focus on projects, subprojects, and advanced change package operations. SCCM Branching Strategies are also covered.

At the end of each module, you will complete a set of review questions to reinforce critical topics from that module. At the end of the course, you will complete a course assessment in Pro/FICIENCY intended to evaluate your understanding of the course as a whole.

Course Objectives

- Understand Advanced Configuration Management terms and concepts
- Create and Configure Projects and Subprojects
- Perform Checkpoints with Labels
- Identify differences between Project versions
- Resynchronize Change Packages
- Resolve Conflicting Changes
- Manage the Change Package Review process
- Merge Development Path Changes
- Create and enable Shared Subprojects
Prerequisites

- SCCM with Integrity 10.4 for Basic Users

Audience

- This course is intended for Advanced Integrity users who develop code within a controlled configuration management environment. People in related roles will also benefit from taking this course.
# Agenda

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   i. Understanding Deferred Operations
   ii. Deferring Member Operations
   iii. Submitting Deferred Member Operations
   iv. Understanding Pending Change Package Revisions
   v. Following the Change Package Review Process
   vi. Understanding Change Package Review Workflow States
   vii. Understanding Change Package Review Notifications

Knowledge Check Questions

Module 2. Working with Software Change and Configuration Management (SCCM) Projects
   i. Understanding Software Change and Configuration Management Projects
   ii. Understanding Project History
   iii. Understanding Subprojects
   iv. Creating Projects
   v. Checkpointing
   vi. Using Configuration Management Project Metrics
   vii. Viewing Project Differences
   viii. Understanding Software Change and Configuration Management Labels
   ix. Working with Projects and Checkpoints
   x. Using Shared Subprojects
   xi. Configuring Subprojects
   xii. Moving Subprojects
   xiii. Dropping and Adding Configuration Management Projects
   xiv. Understanding Shared Members
   xv. Setting a Revision Rule for Members
   xvi. Configuring a Scoped Sandbox

Knowledge Check Questions

Module 3. Software Change and Configuration Management (SCCM) Branching Strategies
   i. Understanding SCCM Branching Patterns
   ii. Release Based Branching
   iii. Project Based Branching
   iv. Alternate Project Based Branching

Knowledge Check Questions

Module 4. Advanced Change Package Operations
   i. Copying Changes
   ii. Using Resynchronize Change Package
   iii. Using Propagation Change Packages
   iv. Resolving Conflicting Changes
v. Merging Change Package Revisions
vi. Using Resynchronize Change Package with Change Package Review
vii. Understanding Net Changes
viii. Understanding Backfill
ix. Merging a Child Development Path

Knowledge Check Questions

Module 5. Traceability
i. Understanding Source Traces
ii. Using the Source Trace Viewer
iii. Linking an Item to the Source Code Project

Knowledge Check Questions
Web Based Curriculum Guide

- Requirements Engineering with Integrity 10.1
- Workflows and Documents with Integrity 10.1
- Test Management with Integrity 10.3
- SCCM with Integrity 10.4 for Basic Users
- SCCM with Integrity 10.4 for Advanced Users
- Change Management with Integrity 10.1
- Integrations with Integrity 10.1
- Items with Integrity 10.1
- Locate and View Information with Integrity 10.1
- Metrics with Integrity 10.1
- Requirements Management with Integrity 10.1
- Working with Documents in Integrity 10.1
- Reuse with Integrity 10.1
- Traceability with Integrity 10.1
- Test Management Basics with Integrity 10.3
- Test Planning with Integrity 10.3
- Test Authoring with Integrity 10.3
• Test Execution with Integrity 10.3
• Defect Management with Integrity 10.3
• SCCM Configuration Management Overview with Integrity 10.4
• SCCM Members with Integrity 10.4
• SCCM Sandboxes with Integrity 10.4
• SCCM Change Packages with Integrity 10.4
• SCCM Projects with Integrity 10.4
• SCCM Integrated Development Environments with Integrity 10.4
• SCCM Traceability with Integrity 10.4
Overview

Course Code: WBT-4100-0  
Course Length: 8 Hours

In this course, you will be introduced to the capabilities and concepts of documents, reuse, persistence, change management, versions, and baselines required for requirements authoring. After completing this course, you will be able to move beyond the basics of requirements authoring to manage your requirements throughout an application or product lifecycle. Concepts integral to requirements management including traceability, change management, requirements monitoring, and reuse are covered.

At the end of each module, you will complete a set of review questions to reinforce critical topics from that module. At the end of the course, you will complete a course assessment in Pro/FICIENCY intended to evaluate your understanding of the course as a whole.

Course Objectives

- Author and manage requirements within Integrity
- Create requirement document baselines and view historical documents
- Import and export requirements between Microsoft Word and Integrity
- Publish Integrity requirements to PTC Windchill
- Manage requirements within an application or product lifecycle
- Conduct impact analysis from a trace view
- Manage change throughout an application or product lifecycle
- Develop valuable metrics to monitor requirements
- Reuse requirements in different product families or variants
Prerequisites

• Workflows and Documents with Integrity 10, or equivalent

Audience

• This course is intended for requirements engineers, requirements analysts, product managers, project managers, directors of engineering, and product management. People in related roles will also benefit from taking this course.
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Course Objectives

- Provide an overview of basic workflow and document concepts
- Import a ViewSet
- Create and edit process items
- Work with Integrity items in the document view
- Resolve conflict messages when handling items simultaneously edited by multiple users
- Configure queries and column sets
- Filter and view project data based on specific categories
- Find items based on a search phrase
- Create custom buttons to output data to commonly used external applications
- Set up E-mail notifications
- Relate items to one another
- Display workflow and document item information in a report format
- Graphically render workflow and document information in a chart format
Prerequisites

- None

Audience

- This course is intended for Integrity users who submit, edit, and view items as well as those who create reports and charts. People in related roles will also benefit from taking this course.
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Test Management with Integrity 10.3

Overview

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In this course, you will learn how Test Management for Integrity 10.3 enables you to use Integrity to plan, develop, manage, and monitor your testing activities. You will learn how to create plans, tests, and objectives as well as execute tests, record results, and conduct test coverage analysis. Defect discovery, verification, and resolution will also be covered.

At the end of each module, you will complete a set of review questions to reinforce critical topics from that module. At the end of the course, you will complete a course assessment in Pro/FICIENCY intended to evaluate your understanding of the course as a whole.

Course Objectives

- Define Test Management terminology
- Author and manage tests within Integrity
- Create a project to monitor testing progress
- Create a test plan and a series of test objectives
- Update test objectives with test plans
- Create, copy, and replace test steps
- Determine test step editability
- Create and execute test sessions
- Use the test result editor
- Resolve parameters
- Link defects to failed test cases
- Verify defect resolution
Prerequisites

- Workflows and Documents with Integrity 10.1

Audience

- This course is intended for Integrity users who author, manage, or execute tests. People in related roles will also benefit from taking this course.
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SCCM with Integrity 10.4 for Basic Users

Overview

Course Code: WBT-4103-0
Course Length: 8 Hours

In this course, you will learn about Integrity Software Change and Configuration Management 10.4. You will understand how to accomplish basic version control and configuration management skills. You will learn how to work with sandboxes, members, and change packages. Branching, parallel, and variant development will also be introduced. At the end of each module, you will complete a set of review questions to reinforce critical topics from that module. At the end of the course, you will complete a course assessment in Pro/FICIENCY intended to evaluate your understanding of the course as a whole.

Course Objectives

- Understand Basic Configuration Management terms and concepts
- Creating a personal workspace using Sandboxes
- Check out, edit files and check back in files
- Identify different types of locks
- Identify Delta Symbols
- Resolve file differences
- Work within parallel development environment
- Create branched versions of members
- Keeping track of related code changes by using Change Packages
- Locate Members and Subprojects by name
Prerequisites

• None

Audience

• This course is intended for Integrity users who develop code within a controlled configuration management environment. People in related roles will also benefit from taking this course.
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Module 1. Configuration Management Overview
   i. Understanding Version Control
   ii. Understanding Configuration Management
   iii. Understanding Integrity Software Change and Configuration Management
   iv. Understanding Working Files
   v. Understanding the Integrity Development Cycle
   vi. Understanding Change Packages
   vii. Reviewing the Developer 10 ViewSet

Knowledge Check Questions

Module 2. Working with Software Change and Configuration Management Sandboxes
   i. Understanding Sandboxes
   ii. Creating a Sandbox
   iii. Understanding Members
   iv. Understanding Member Revisions
   v. Viewing Member History
   vi. Understanding Member History Contents
   vii. Identifying Non-Members
   viii. Reviewing Revision Metadata
   ix. Understanding Change Package Member Operations
   x. Integrating Change Packages with Integrity Items
   xi. Revising Members
   xii. Identifying Types of Locks
   xiii. Submitting a Change Package
   xiv. Dropping a Sandbox
   xv. Importing a Sandbox

Knowledge Check Questions

Module 3. Working with Members
   i. Adding Members
   ii. Viewing the Graphical Member History
   iii. Differencing Member Revisions
   iv. Using the Annotated Revision View
   v. Locating Members and Subprojects
   vi. Moving Members
   vii. Renaming Members
   viii. Reverting Members
   ix. Identifying Deltas
   x. Using Refresh (F5)
   xi. Using Resynchronize (F6)

Knowledge Check Questions
Module 4. Working with Change Packages
   i. Searching for Change Packages
   ii. Filtering Change Packages
   iii. Understanding Change Package Entry Categories
   iv. Working with Change Package Reviews
   v. Resynchronizing by Change Package

Knowledge Check Questions

Module 5. Parallel Development
   i. Understanding Member Branching
   ii. Understanding Revision Numbering
   iii. Performing Parallel Development by Merging with Member Revision
   iv. Performing Parallel Development by Branching and Merging

Knowledge Check Questions

Module 6. Variant Development
   i. Diverging Development
   ii. Creating Development Paths
   iii. Understanding Variant Projects
   iv. Creating Variant Sandboxes
   v. Creating a Build Sandbox
   vi. Retargeting a Sandbox

Knowledge Check Questions

Module 7. IDEs
   i. Reviewing SCCM Supported Integrated Development Environments (IDEs)
   ii. Understanding the Eclipse Integration
   iii. Reviewing the Integrity Eclipse Interface
   iv. Creating a Sandbox within Eclipse
   v. Checking In and Out within Eclipse
   vi. Checkpointing within Eclipse

Knowledge Check Questions
SCCM with Integrity 10.4 for Advanced Users

Overview

Course Code: WBT-4104-0
Course Length: 8 Hours

In this course, you will take an in depth look at Integrity Software Change and Configuration Management 10.4 such that you will understand how to accomplish advanced version control and configuration management. You will continue to work with development paths and sandboxes with a key focus on projects, subprojects, and advanced change package operations. SCCM Branching Strategies are also covered.

At the end of each module, you will complete a set of review questions to reinforce critical topics from that module. At the end of the course, you will complete a course assessment in Pro/FICIENCY intended to evaluate your understanding of the course as a whole.

Course Objectives

- Understand Advanced Configuration Management terms and concepts
- Create and Configure Projects and Subprojects
- Perform Checkpoints with Labels
- Identify differences between Project versions
- Resynchronize Change Packages
- Resolve Conflicting Changes
- Manage the Change Package Review process
- Merge Development Path Changes
- Create and enable Shared Subprojects

Prerequisites

- SCCM with Integrity 10.4 for Basic Users

Audience

- This course is intended for Advanced Integrity users who develop code within a controlled configuration management environment. People in related roles will also benefit from taking this course.
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Change Management with Integrity 10.1

Overview

Course Code: WBT-4105-0
Course Length: 0.5 Hour

In this course, you will be introduced to the capabilities and concepts of change management. Workflow, change management, change authorization, and change notification will be covered.

You will complete Pro/FICiENCY skills assessment questions for each topic. These questions are used to help reinforce your understanding of the course topics.

Course Objectives

- Understand workflow
- Understand lifecycle management capabilities
- Understand change requests
- Understand AllowEdits
- Use Change Request Authorization
- Review change notifications
- Identify suspect relationships

Prerequisites

- Items with Integrity 10.1

Audience

- This course is intended for Integrity users who work with change management basics, change permissions, and suspect flags. People in related roles will also benefit from taking this course.
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Integrations with Integrity 10.1

Overview

Course Code  WBT-4106-0
Course Length  0.5 Hour

In this course, you will be introduced to the capabilities and concepts of integrations. Microsoft Excel, Microsoft Word, and Windchill integrations will be covered.

You will complete Pro/FICIENCY skills assessment questions for each topic. These questions are used to help reinforce your understanding of the course topics.

Course Objectives

- Edit in Microsoft Word
- Export in Microsoft Word
- Import in Microsoft Word
- Reimport content
- Understand the Windchill integration
- Understand Integrity to Windchill Publish
- Understand Integrity Document Publish
- Export query results to Microsoft Excel
- Integrate with Microsoft Excel
Prerequisites

- Items with Integrity 10.1
- Requirements Management with Integrity 10.1

Audience

- This course is intended for Integrity users who work with integrating with Microsoft Word, Windchill, and Microsoft Excel. People in related roles will also benefit from taking this course.
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Overview

In this course, you will be introduced to the capabilities and concepts of Integrity items. Creating and editing items, detecting duplicate items, and using field filtering will be covered. You will complete Pro/FICIENCY skills assessment questions for each topic. These questions are used to help reinforce your understanding of the course topics.

Course Objectives

- Understand items and item types
- Create an item
- Detect duplicate items
- Understand fields
- Work with rich content
- Add attachments
- Edit an item
- Understand Edit View Options
- Review tabs
- View item history
- Resolve item edit conflicts
- Understand relationships
- Create relationships
- Use field filtering
- Link an item to the source code project
- Use SCM project metrics

Prerequisites

- None

Audience

- This course is intended for Integrity users who work with Integrity items. People in related roles will also benefit from taking this course.
| Module | 1 | Working with Items |
Locate and View Information with Integrity 10.1

Overview

Course Code       WBT-4108-0
Course Length     2 Hours

In this course, you will be introduced to the capabilities and concepts of Locate and View. Navigating the Web and GUI interfaces, customizing viewsets, and setting up E-mail notifications will be covered.

You will complete Pro/FICIENCY skills assessment questions for each topic. These questions are used to help reinforce your understanding of the course topics.

Course Objectives

- Navigate the Web interface
- Navigate the client GUI
- Import viewsets
- Customize a viewset
- Configure columns
- Activate the Integrity Project Filter
- Use Embedded Item View
- Configure View options
- Configure Relationship View Settings
- Set client preferences
- Create custom actions
- Set up E-mail notifications

Prerequisites

- None

Audience

- This course is intended for Integrity users who work with Integrity interfaces, views and viewsets, and user settings. People in related roles will also benefit from taking this course.
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Metrics with Integrity 10.1

Overview

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In this course, you will be introduced to the capabilities and concepts of metrics. Running, creating, and managing queries, reports, charts, and dashboards will be covered. You will complete Pro/FICIENCY skills assessment questions for each topic. These questions are used to help reinforce your understanding of the course topics.

Course Objectives

- Understand queries
- Manage queries
- Run queries
- Apply a Query Filter
- Modify a Quick Query
- Use the Query Builder
- Create a Named Query
- Modify a Named Query
- Understand reports, charts, and dashboards
- Manage reports, charts, and dashboards
- Run reports, charts, and dashboards
- Create reports, charts, and dashboards
- Edit reports, charts, and dashboards
- Use Text Search
- Review Favorites
- Create comparison reports
- Understand solution preconfigured reports, charts, and dashboards

Prerequisites

- Items with Integrity 10.1

Audience

- This course is intended for Integrity users who work with queries, reports, charts, dashboards, text searches, and favorites. People in related roles will also benefit from taking this course.
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Requirements Management with Integrity 10.1

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In this course, you will be introduced to the capabilities and concepts of requirements management. Integrity requirements engineering and architecture components will be covered.

You will complete Pro/FICIENCY skills assessment questions for each topic. These questions are used to help reinforce your understanding of the course topics.

Course Objectives

- Understand requirements engineering
- Understand Integrity requirements engineering
- Identify requirements engineering architecture components

Prerequisites

- None

Audience

- This course is intended for Integrity users who work with requirements management. People in related roles will also benefit from taking this course.
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## Working with Documents in Integrity 10.1

### Overview

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In this course, you will be introduced to the capabilities and concepts of documents. Finding, creating, viewing, editing, and baselining documents will be covered. You will complete Pro/FICIENCY skills assessment questions for each topic. These questions are used to help reinforce your understanding of the course topics.

### Course Objectives

- Understand document domains, types, structure, and workflow
- Understand Integrity documents
- Use the Document Finder
- View, create, edit, and baseline documents
- Review ID columns
- Understand document item and significant edit fields
- Understanding document authorization and permissions
- Configure general and other document view options
- Review document and content menus
- Review VirtualRow
- Work with subdocuments
- Use document column contexts
- Save and revert in the Document view
- Modify content
- Review an Integrity project item
- Revision items
Prerequisites

• Items with Integrity 10.1

Audience

• This course is intended for Integrity users who work with document theory; accessing documents; document features, view options, components, and functionality; and significant editing. People in related roles will also benefit from taking this course.
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Overview

Course Code: WBT-4112-0
Course Length: 0.5 Hour

In this course, you will be introduced to the capabilities and concepts of reuse. Reference mode and system branching will be covered. You will complete Pro/FICIENCY skills assessment questions for each topic. These questions are used to help reinforce your understanding of the course topics.

Course Objectives

- Understand reuse
- Use Reference mode
- Use Paste Special Reference mode
- Understand branching
- Use Branch Document and Reference mode

Prerequisites

- Items with Integrity 10.1
- Requirements Management with Integrity 10.1

Audience

- This course is intended for Integrity users who work with manual reuse, system reuse, and branching. People in related roles will also benefit from taking this course.
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Overview

In this course, you will be introduced to the capabilities and concepts of traceability. Viewing, creating, and propagating traces as well as source traces will be covered.

You will complete Pro/FICIENCY skills assessment questions for each topic. These questions are used to help reinforce your understanding of the course topics.

Course Objectives

- Understand the importance of traceability
- Review impact analysis
- Understand traces
- Understand trace relationships
- Create a trace
- View traces
- View trace status
- Understand source traces
- Use the Source Trace Viewer
- Use Trace Propagation
- Use Trace Propagation - Suspect Relationships
Prerequisites

• Items with Integrity 10.1
• Requirements Management with Integrity 10.1

Audience

• This course is intended for Integrity users who work with traceability basics, source traces, and trace propagation. People in related roles will also benefit from taking this course.
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Overview

In this course, you will learn the main components of Integrity Test Management and how they relate to each other and to the overall test management lifecycle. You will complete Pro/FICIENCY skills assessment questions for each topic. These questions are used to help reinforce your understanding of the course topics.

Course Objectives

- Identify three key objectives of Test Management
- Define the following test terminology and be able to explain where each component fits in the Test Management lifecycle: test plan, test objective, test suite, test case, test step, test result, and defect
- Explain parameter resolution order

Prerequisites

- None

Audience

- This course is intended for users who are interested in learning more about the basics of Integrity Test Management. People in related roles will also benefit from taking this course.
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Test Planning with Integrity 10.3

Overview

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<td>Course Length</td>
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In this course, you will learn how to create a test plan and define test objectives for your plan. Test plans outline the overall test strategy for a project and provide status information on the progress of testing at a project level. You will complete Pro/FICIENCY skills assessment questions for each topic. These questions are used to help reinforce your understanding of the course topics.

Course Objectives

- Create a test plan and a series of test objectives

Prerequisites

- Test Management Basics with Integrity 10.3

Audience

- This course is intended for any users who will need to work with test plans and test objectives, including test managers. People in related roles will also benefit from taking this course.
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Test Authoring with Integrity 10.3

Overview

Course Code  WBT-4116-0  
Course Length  1 Hour

In this course, you will learn how to use the Test Author ViewSet to develop your test documents and test cases. You will complete Pro/FICIENCY skills assessment questions for each topic. These questions are used to help reinforce your understanding of the course topics.

Course Objectives

• Author test suites containing test cases
• Create, copy, and replace test steps
• Create and substitute parameters
• Update test objectives
• Create test groups

Prerequisites

• Test Management Basics with Integrity 10.3

Audience

• This course is intended for test authors and test developers. People in related roles will also benefit from taking this course.
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Overview

In this course, you will be introduced to the capabilities and concepts involved in test execution. Test sessions, results, and verdicts will also be covered. Testers follow documented test steps and enter information using the Test Result Editor.

You will complete Pro/FICIENCY skills assessment questions for each topic. These questions are used to help reinforce your understanding of the course topics.

Course Objectives

- Set the type of session to be used for testing
- Enter test result verdicts and details
- Move a test session through its workflow

Prerequisites

- Test Management Basics with Integrity 10.3

Audience

- This course is intended for any users who will need to perform test execution, including test engineers. People in related roles will also benefit from taking this course.
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Defect Management with Integrity 10.3

Overview

Course Code: WBT-4118-0
Course Length: 0.5 Hour

In this course, you will be introduced to the capabilities and concepts involved in Defect Management within a testing environment. Discovering, resolving, and verifying defects will be covered. You will relate failed test results to existing or newly created defects to provide a tightly integrated relationship between the execution of test cases and defect management.

You will complete Pro/FICIENCY skills assessment questions for each topic. These questions are used to help reinforce your understanding of the course topics.

Course Objectives

- Create defects on failed test cases from a test session
- Verify defect resolution

Prerequisites

- Test Management Basics with Integrity 10.3

Audience

- This course is intended for any users who will need to perform defect management within a testing environment, including test engineers. People in related roles will also benefit from taking this course.
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Overview

Course Code: WBT-4119-0
Course Length: 0.3 Hour

In this course, you will be introduced to the capabilities and concepts of Integrity Software Change and Configuration Management (SCCM). Projects, Members, Transactional Change Packages, and the Developer 10 Viewset will be covered. You will complete Pro/FICIENCY skills assessment questions for each topic. These questions are used to help reinforce your understanding of the course topics.

Course Objectives

- Explain how projects, members, and member histories relate to configuration management in Integrity
- List the benefits of transactional change packages and explain how to use them
- Differentiate between working files and members
- Navigate the three main views of the Developer 10 ViewSet

Prerequisites

- None

Audience

- This course is intended for Integrity developers who are involved with software source code development. People in related roles will also benefit from taking this course.
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SCCM Members with Integrity 10.4

Overview

Course Code | WBT-4120-0
Course Length | 2.5 Hours

In this course, you will be introduced to the capabilities and concepts of Integrity SCCM Members. Member Structure, Using, Updating, and Branching members will be covered. You will complete Pro/FICIENCY skills assessment questions for each topic. These questions are used to help reinforce your understanding of the course topics.

Course Objectives

• Review Revision Metadata
• Identify Non-members, Member deltas and Member Lock Types
• Add, locate, move and rename Members
• View and interpret the Graphical Member History
• Difference member revisions
• Locate members and subprojects
• Refresh and resynchronize your view
• Understand and Submit a Deferred Member
• Identify pending revisions
• Explain the Change Package Review process

Prerequisites

• None

Audience

• This course is intended for Integrity developers who are involved with software source code development. People in related roles will also benefit from taking this course.
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SCCM Sandboxes with Integrity 10.4

Overview

Course Code: WBT-4121-0
Course Length: 1 Hour

In this course, you will be introduced to the capabilities and concepts of Integrity SCCM Sandboxes. Creating Normal, Build, and Variant Sandboxes, as well as Configuring a Scoped Sandbox will be covered. You will complete Pro/FICIENCY skills assessment questions for each topic. These questions are used to help reinforce your understanding of the course topics.

Course Objectives

- Create a Sandbox
- Drop and import a Sandbox
- Create Development Paths to enable working in a Variant Project
- Create Variant Sandboxes
- Create a Build Sandbox for read only Sandbox configuration
- Retarget a Sandbox
- Configure a Scoped Sandbox

Prerequisites

- None

Audience

- This course is intended for Integrity developers who are involved with software source code development. People in related roles will also benefit from taking this course.
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SCCM Change Packages with Integrity 10.4

Overview

Course Code     WBT-4122-0
Course Length    1.5 Hours

In this course, you will be introduced to the capabilities and concepts of Integrity SCCM Change Packages. Creating and Working with Change Packages and the Change Package Review Process will be covered. You will complete Pro/FICIENCY skills assessment questions for each topic. These questions are used to help reinforce your understanding of the course topics.

Course Objectives

- Create and work with Change Packages integrated with Integrity items
- Explain Change Package Member operations
- Locate Change Packages you need to work with
- Explain Change Package entry categories
- Review Change Packages as a Change Package reviewer
- Resynchronize by Change Packages to bring member revisions to your Sandbox
- Identify pending revisions
- Explain the Change Package Review process
- Understand how to Copy Changes Between Paths of Development
- Move Changes from one Path of Development to another
- Merge Changes from one Path of Development to another
- Handle Conflicting Parallel development Changes

Prerequisites

- None

Audience

- This course is intended for Integrity developers who are involved with software source code development. People in related roles will also benefit from taking this course.
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SCCM Projects with Integrity 10.4

Overview

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In this course, you will be introduced to the capabilities and concepts of Integrity SCCM Projects. Creating Projects, Checkpointing, Branching, and Merging will be covered. You will complete Pro/FICIENCY skills assessment questions for each topic. These questions are used to help reinforce your understanding of the course topics.

Course Objectives

- Create and work with Change Packages integrated with Integrity items
- Understand SCCM Project and subproject structure
- Create SCCM Project Checkpoints
- Track SCCM Project Metrics
- Move SCCM subprojects
- Add and Drop SCCM Projects
- Compare Release based branching to Project based branching
- Determine when to use the Alternate Project based branching Strategy
- Perform Parallel Development

Prerequisites

- None

Audience

- This course is intended for Integrity developers who are involved with software source code development. People in related roles will also benefit from taking this course.
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SCCM Integrated Development Environments with Integrity 10.4

Overview

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<th>Course Code</th>
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In this course, you will be introduced to the capabilities and concepts of Integrity SCCM Integrated Development Environments (IDEs). Creating a Sandbox, Checking in and Out, and Checkpointing within Eclipse will be covered. You will complete Pro/FICIENCY skills assessment questions for each topic. These questions are used to help reinforce your understanding of the course topics.

Course Objectives

- Create a Sandbox within Eclipse
- Modify files in Eclipse and submit the associated Change Package
- Checkpoint within Eclipse

Prerequisites

- None

Audience

- This course is intended for Integrity developers who are involved with software source code development. People in related roles will also benefit from taking this course.
| Module | 1 | SCCM Eclipse Integration |
SCCM Traceability with Integrity 10.4

Overview

Course Code: WBT-4125-0
Course Length: 0.8 Hour

In this course, you will be introduced to the capabilities and concepts of Integrity SCCM Traceability. The Source Trace Viewer and Linking an item to a source code project will be covered.

You will complete Pro/FICIENCY skills assessment questions for each topic. These questions are used to help reinforce your understanding of the course topics.

Course Objectives

- Identify information in the Source Trace Viewer
- Link an SCCM project to a Workflows and Documents item
- View trace information from both the Workflows and Documents item and the SCCM project

Prerequisites

- None

Audience

- This course is intended for Integrity developers who are involved with software source code development. People in related roles will also benefit from taking this course.
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