

E2E220

SAP Test Management Overview

COURSE OUTLINE

Course Version: 17

Course Duration: 3 Day(s)

SAP Copyrights and Trademarks

© 2017 SAP SE or an SAP affiliate company. All rights reserved.

No part of this publication may be reproduced or transmitted in any form or for any purpose without the express permission of SAP SE or an SAP affiliate company.

SAP and other SAP products and services mentioned herein as well as their respective logos are trademarks or registered trademarks of SAP SE (or an SAP affiliate company) in Germany and other countries. Please see <http://global12.sap.com/corporate-en/legal/copyright/index.epx> for additional trademark information and notices.

Some software products marketed by SAP SE and its distributors contain proprietary software components of other software vendors.

National product specifications may vary.








These materials are provided by SAP SE or an SAP affiliate company for informational purposes only, without representation or warranty of any kind, and SAP SE or its affiliated companies shall not be liable for errors or omissions with respect to the materials. The only warranties for SAP SE or SAP affiliate company products and services are those that are set forth in the express warranty statements accompanying such products and services, if any. Nothing herein should be construed as constituting an additional warranty.

In particular, SAP SE or its affiliated companies have no obligation to pursue any course of business outlined in this document or any related presentation, or to develop or release any functionality mentioned therein. This document, or any related presentation, and SAP SE's or its affiliated companies' strategy and possible future developments, products, and/or platform directions and functionality are all subject to change and may be changed by SAP SE or its affiliated companies at any time for any reason without notice. The information in this document is not a commitment, promise, or legal obligation to deliver any material, code, or functionality. All forward-looking statements are subject to various risks and uncertainties that could cause actual results to differ materially from expectations. Readers are cautioned not to place undue reliance on these forward-looking statements, which speak only as of their dates, and they should not be relied upon in making purchasing decisions.

Typographic Conventions

American English is the standard used in this handbook.

The following typographic conventions are also used.

This information is displayed in the instructor's presentation	
Demonstration	
Procedure	
Warning or Caution	
Hint	
Related or Additional Information	
Facilitated Discussion	
User interface control	<i>Example text</i>
Window title	<i>Example text</i>

Contents

vii Course Overview

1 Unit 1: The Big Picture - Test Management with SAP Solution Manager

- 1 Lesson: Introducing Test Management
- 1 Lesson: Understanding Automated and Manual Testing
- 1 Lesson: Implementing Test Management

3 Unit 2: Test Environment

- 3 Lesson: Mapping the System Landscape
- 3 Lesson: Creating a Solution Manager Process Structure

5 Unit 3: Test Management

- 5 Lesson: Setting Up the Test Management Scenario
- 5 Lesson: Creating Test Cases
- 5 Lesson: Managing the Test Plan
- 5 Lesson: Enhancing Test Planning
- 5 Lesson: Processing Test Cases and Reporting a Test Error
- 6 Lesson: Managing Test Reporting

7 Unit 4: Business Process Change Analysis

- 7 Lesson: Describing the Technical Bill of Materials
- 7 Lesson: Performing Scenario Preparation Activities
- 7 Lesson: Performing a Change Impact Analysis

9 Unit 5: Implement and Use Scope and Effort Analyzer

- 9 Lesson: Understanding the SEA technical prerequisites and best practices
- 9 Lesson: Performing a Scope and Effort Analysis

11 Unit 6: Test Automation with SAP Solution Manager

- 11 Lesson: Understanding Components and Prerequisites
- 11 Lesson: Defining Automated Tests
- 11 Lesson: Understanding Test Automation with CBTA
- 11 Lesson: Scheduling Unattended Tests
- 11 Lesson: Automated Test Reporting
- 12 Lesson: Explaining the Accelerated Maintenance of Damaged Test Cases

13 Unit 7: Test Environment and the Test Data Migration Server

- 13 Lesson: Setting Up The Test Environment

15 Unit 8: Performance Testing using SAP LoadRunner by HP

15 Lesson: Using SAP LoadRunner by HP for Performance Testing

Course Overview

TARGET AUDIENCE

This course is intended for the following audiences:

- Change Manager
- Application Consultant
- Enterprise Architect
- Program/Project Manager
- System Architect
- Technology Consultant
- Trainer
- User

Lesson 1: Introducing Test Management

Lesson Objectives

After completing this lesson, you will be able to:

- Explain the test management process in SAP Solution Manager

Lesson 2: Understanding Automated and Manual Testing

Lesson Objectives

After completing this lesson, you will be able to:

- Recognize the advantages and drawbacks of manual and automated testing

Lesson 3: Implementing Test Management

Lesson Objectives

After completing this lesson, you will be able to:

- Understand how to implement test management in SAP Solution Manager

Lesson 1: Mapping the System Landscape

Lesson Objectives

After completing this lesson, you will be able to:

- Explain the purpose of logical components in the SAP Solution Manager

Lesson 2: Creating a Solution Manager Process Structure

Lesson Objectives

After completing this lesson, you will be able to:

- Identify the main elements of a Solution Manager Solution with regards to testing

Lesson 1: Setting Up the Test Management Scenario

Lesson Objectives

After completing this lesson, you will be able to:

- Configure the central settings of the Test Suite
- Set up the reporting of SAP Solution Manager

Lesson 2: Creating Test Cases

Lesson Objectives

After completing this lesson, you will be able to:

- Create test cases and assign them as business process content to your SAP Solution Manager process documentation
- Explain the relevance of digital signatures and status schemas for documents

Lesson 3: Managing the Test Plan

Lesson Objectives

After completing this lesson, you will be able to:

- Create a test plan (test scope) based on the test cases in the configuration
- Understand how test packages can be tailored and the assignment of tester works
- Know how to assign a release status schemas to a test plan

Lesson 4: Enhancing Test Planning

Lesson Objectives

After completing this lesson, you will be able to:

- Explain how to ease test scope definition for high volumes of business processes
- Understand the process of test effort calculation and reporting

Lesson 5: Processing Test Cases and Reporting a Test Error

Lesson Objectives

After completing this lesson, you will be able to:

- Process test cases from a test package
- Set the status of a test case
- Add a note to a test case
- Report a test error

Lesson 6: Managing Test Reporting

Lesson Objectives

After completing this lesson, you will be able to:

- Analyze testing-related gaps in process documentation, test plans, and test packages
- Display the current status of one or more test plans in the test suite
- Use BI reporting functionality for test reporting purposes

Lesson 1: Describing the Technical Bill of Materials

Lesson Objectives

After completing this lesson, you will be able to:

- Understand the BPCA technical prerequisites, possible use cases, and best practices

Lesson 2: Performing Scenario Preparation Activities

Lesson Objectives

After completing this lesson, you will be able to:

- Understand the setup procedure for BPCA and the automated creation of TBOMs

Lesson 3: Performing a Change Impact Analysis

Lesson Objectives

After completing this lesson, you will be able to:

- Understand the use cases for the Change Impact Analysis using BPCA
- Run a Change Impact Analysis
- Evaluate a Change Impact Analysis
- Create a new test plan based on the Change Impact Analysis

Lesson 1: Understanding the SEA technical prerequisites and best practices

Lesson Objectives

After completing this lesson, you will be able to:

- Understand the SEA technical prerequisites and best practices

Lesson 2: Performing a Scope and Effort Analysis

Lesson Objectives

After completing this lesson, you will be able to:

- Understand the use cases for the SEA
- Run an SEA analysis
- Evaluate SEA results

Lesson 1: Understanding Components and Prerequisites

Lesson Objectives

After completing this lesson, you will be able to:

- Understand the test automation capabilities and components of CBTA as well as the technical prerequisites and the setup procedure for CBTA

Lesson 2: Defining Automated Tests

Lesson Objectives

After completing this lesson, you will be able to:

- Set up a System Data Container
- Understand parameterization for automated scripts
- Handle test data containers

Lesson 3: Understanding Test Automation with CBTA

Lesson Objectives

After completing this lesson, you will be able to:

- Explain the construction and functionality of CBTA test configurations

Lesson 4: Scheduling Unattended Tests

Lesson Objectives

After completing this lesson, you will be able to:

- Explain the principle of scheduling unattended tests

Lesson 5: Automated Test Reporting

Lesson Objectives

After completing this lesson, you will be able to:

- Analyze test results in CBTA logs

- Explain how test results can be accessed

Lesson 6: Explaining the Accelerated Maintenance of Damaged Test Cases

Lesson Objectives

After completing this lesson, you will be able to:

- Explain the workflow for the repair of damaged test cases
- Explain the benefits for test case developers to identify reasons for a damaged test case

Lesson 1: Setting Up The Test Environment

Lesson Objectives

After completing this lesson, you will be able to:

- Explain how to use the Test Data Migration Server to set up a test environment using a subset of your productive data

Lesson 1: Using SAP LoadRunner by HP for Performance Testing

Lesson Objectives

After completing this lesson, you will be able to:

- Explain how to use SAP LoadRunner by HP for performance testing