SIEMENS

Course Description

Tessent

Tessent Shell Intro

Course Code	304941-US
Software	Tessent 2026.1
User Level	All
PricingID	Contact Us
Live Online Duration	6 hours for each day for 2 days

Course Abstract

This introductory course provides a comprehensive overview of the Tessent Shell environment, equipping engineers with essential skills for efficient integrated circuit design analysis and automation. Participants will gain foundational knowledge in using both the command-line and graphical interfaces to streamline design workflows and improve productivity.

Course Details

This course offers a practical introduction to the Tessent Shell environment, focusing on essential skills for efficient integrated circuit design and analysis. Participants will gain hands-on experience with the Tessent Visualizer graphical interface for design introspection and editing, while also mastering the unified Tcl-style syntax and command conventions that underpin Tessent Shell scripting. The curriculum covers the use of system modes and contexts to manage design states, techniques for examining and editing design data, and effective strategies for leveraging the built-in help system and documentation. By the end of the course, students will be equipped to navigate the Tessent Shell and Visualizer tools with confidence, enabling streamlined design workflows and improved productivity.

Learn how to leverage …. Hands-on lab exercises will reinforce lecture and discussion topics under the guidance of our industry expert instructors.

PREREQUISITES

Familiarity with the basic concepts of SoC test methodologies and techniques, basics of memory organization and testing, JTAG, IJTAG, logic, and state devices. There are no prerequisite courses as this course is an overview of the Tessent Shell interface. However, if you have taken other Tessent courses, this course will demonstrate how to deal with Tessent Shell interface and invoke it.

PRIMARY COURSE TOPICS

What You'll Learn

- Navigate and utilize the Tessent Visualizer for design introspection and editing.
- Apply Tessent Shell syntax and command conventions for scripting and automation.
- Understand and manage system modes and contexts within the design environment.
- Perform design introspection and editing using both command-line and graphical tools.
- leverage the built-in help system and documentation for efficient problem-solving.
- Develop and debug scripts to automate common design tasks in Tessent Shell.

Throughout this course, extensive hands-on lab exercises provide practical experience using Tessent™ software. Lab topics include:

- An overview of the Tessent Shell and its startup file,

where you learn to initialize and configure your environment.
- Executing basic commands to interact with the design data model.
- Exploring designs using Tessent Visualizer for graphical introspection and editing.
- Understanding special characters and syntax conventions in the Tessent Shell Tcl interface to ensure robust scripting.
- Accessing help within Tessent tools for command reference and troubleshooting.
- Performing design editing and introspection commands to examine and modify design objects.
- Utilizing the Tessent online documentation for detailed guidance.
- Use the Support Center for additional resources and assistance.