Mastering Tekla Tedds

Target Audience

This course is ideal for structural and civil engineers, designers, and students looking to streamline engineering calculations using Tekla Tedds. It is also beneficial for professionals using Tekla Structures who want to integrate automated calculations into their workflow.

Course Objective

This course aims to provide a comprehensive understanding of Tekla Tedds, covering fundamental to advanced features. Participants will learn how to use predefined calculations, write custom scripts, format reports, and optimize workflows while following best practices in structural engineering documentation.

Course Outcome

By the end of this course, learners will be able to efficiently navigate Tekla Tedds, work with predefined calculations, generate professional reports, create and manage custom calculations, troubleshoot common issues, and integrate Tedds with other engineering tools for improved efficiency.

Course Outline: The course comprises **40-hours** of theory and labs and is divided into **10** different chapters. Each chapter will be followed by **hands-on lab exercises** to reinforce learning and gauge understanding of the topics covered.

Module 1: Introduction to Tekla Tedds

- Overview of Tekla Tedds and Its Capabilities
- Importance of Automated Structural Calculations
- Understanding the Role of Tedds in Structural Engineering
- Exploring the User Interface and Key Features

Module 2: Getting Started with Tekla Tedds

- Installing and Setting Up Tekla Tedds
- Launching the Application and Navigating the Workspace
- Accessing and Managing the Calculation Library
- Managing Projects and Files

Module 3: Working with Predefined Calculations

- Selecting and Running Predefined Calculations
- Inputting Parameters and Understanding Variables
- Reviewing, Modifying, and Validating Results
- Modifying and Reusing Calculations for Different Scenarios

Module 4: Reporting and Documentation

- Generating Professional Calculation Reports
- Formatting and Customizing Reports
- Exporting and Sharing Reports for Project Documentation

Module 5: Writing Your Own Calculations in Tedds

- Introduction to Tedds for Word Interface
- Setting Up a New Calculation Document
- Understanding Calculation Structure
- Defining Variables and Input Parameters

Module 6: Advanced Calculation Development

- Using Formulas and Mathematical Expressions
- Implementing Conditional Logic and Loops
- Working with Units and Conversion Functions
- Debugging and Error Handling in Calculations

Module 7: Enhancing Custom Calculations

- Structuring and Organizing Calculation Sheets
- Adding Text, Tables, and Annotations
- Implementing User Prompts for Dynamic Inputs
- Improving Readability and Presentation of Results

Module 8: Managing and Reusing Custom Calculations

- Saving and Storing Custom Calculations
- Creating and Managing Calculation Libraries
- Sharing and Collaborating on Calculations

Module 9: Integration with Other Tekla Software

- Connecting Tedds with Tekla Structures
- Importing and Exporting Data Between Platforms
- Enhancing Structural Design Workflows

Module 10: Best Practices and Troubleshooting

- Optimizing Workflows for Efficiency
- Common Errors and How to Fix Them
- Additional Resources for Learning and Support