<u>Beyond Basics : A Professional Guide to Tekla Structures</u>

<u>Overview</u>

Welcome to the Tekla eLearning tutorials designed to empower aspiring Tekla users with essential skills and knowledge to become proficient professionals in the field. This comprehensive course covers seven vital topics, each of which promises to be a significant booster when implemented daily.

Basic To Intermediate Level of Custom Components: Elevate your Tekla expertise by delving into the world of custom components. Discover advanced techniques to create bespoke elements, enabling you to cater to unique project requirements more effectively and enhancing your modeling capabilities.

Organiser for Effective Model Checking: Uncover the potential of Tekla's Organiser tool to streamline model checking processes. Acquire valuable insights into organizing and managing model information, resulting in improved coordination and reduced errors during the review process.

Reports for Dynamic Model Modifications: Harness the power of Tekla Reports to make dynamic changes as per project demands. Learn to generate customized reports that aid in decision-making, resource allocation, and project progress monitoring, elevating your efficiency as a Tekla user.

User-Defined Attributes: Unleash the full potential of Tekla by understanding and utilizing user-defined attributes. This topic will equip you with the ability to add valuable data and properties to your model, enhancing collaboration, and facilitating data-driven decision-making.

Lotting: Learn the art of efficiently grouping assemblies for seamless transportation to construction sites. By mastering lotting techniques, you can evaluate specific model parts concerning transfer vehicle capacity, streamlining logistics and minimizing time and resource wastage.

Creating Keyboard Shortcuts: Boost your productivity by creating personalized keyboard shortcuts tailored to your workflow. Master this time-saving skill to navigate Tekla's interface swiftly and execute common tasks seamlessly, empowering you to work smarter and faster.Sharing Keyboard Shortcuts with the Team: Learn the art of sharing your customized keyboard shortcuts with team members. Foster collaboration and standardization within your organization, ensuring a cohesive and efficient modeling process for everyone involved.

By enrolling in this course, you will embark on a transformative journey, becoming a Tekla expert with a diverse skill set. These essential topics will empower you to optimize workflows, enhance collaboration, and handle complex projects with ease. Get ready to elevate your Tekla proficiency and unlock endless possibilities in the world of structural modeling. Enroll today and embrace a future of success as a Tekla professional.

Course Content

Custom Components

- Introduction to Custom Component: Get familiar with the concept and purpose of custom components.
- Different Types of Custom Component: Explore various custom component types, including Detail, Connection, Seam, and Part.
- Create and Bind Variables to Plate Properties: Learn how to create variables and bind them to plate properties.
- Bind Plate Handles for Movement and Offset: Understand how to bind plate handles to facilitate movement and offset operations.
- Add Chamfer to Plate: Discover how to add chamfers to plates for specific design requirements.
- Copy Reference of Primary and Secondary Part: Learn how to copy references of primary and secondary parts for plate adjustment.
- Custom Component Dialogue Box: Understand the custom component dialogue box and its functionalities.
- Share Custom Components: Explore the process of sharing custom components with others.
- Skip Secondary Part in Seam Custom Component: Learn to skip the secondary part in seam custom components as needed.
- Add Missing Objects into Component: Understand how to add missing objects to custom components.
- Option to Change Bolt or Hole or None: Learn how to change options for bolts, holes, or none in custom components.
- Add New Fields in the Custom Component Dialogue Box: Discover how to add new fields to the custom component dialogue box.
- Quiz

Filters

- Introduction to Filters and Topics: Understand the purpose and usage of filters and explore various topics related to them.
- Why We Need to Use Object Row by Default: Learn the advantages of using object row by default in filters.
- Multiple Conditions in a Single Row: Discover how to apply multiple conditions in a single row for efficient filtering.
- Filter to Select Bolt Groups: Learn how to use filters to select bolt groups based on specific criteria.
- Save Conditions in Other Filters: Understand how to save conditions in other filters for reusability.
- Select Plate Profiles (Welded, Loose, and Primary Plates): Explore how to select plate profiles using filters.
- Use Wild Characters (?, [], *): Learn to use wild characters for more flexible and dynamic filtering.
- Quiz

Organizer

- Introduction to Organizer: Get an overview of the organizer tool and its functions.
- Display Report of Selected Objects: Learn how to display reports of selected objects for better management.
- Hold the View: Understand how to use the "hold view" feature for focused analysis.
- Group Objects, Combine Identical Rows: Discover how to group objects and combine identical rows in the organizer.
- Export into Excel Sheet: Learn how to export data from the organizer to an Excel sheet.
- Create Your Own Excel Template: Understand how to create customized Excel templates for specific needs.
- Create New and Subcategory: Learn how to create new categories and subcategories for better organization.
- Colour Code for Checking: Discover how to use color-coding in the organizer for visual identification.
- Tips: Explore useful tips for changing default settings and creating new templates.
- Quiz

Reports

- Introduction to Reports: Understand the purpose and significance of reports in Tekla.
- Difference Between Template and Reports: Learn about the distinctions between templates and reports.
- Different Types of Reports (Graphical and Textual): Explore various types of reports, including graphical and textual formats.
- Convert From Graphical to Report and Vice Versa: Learn how to convert between graphical and report formats.
- Add New Fields to Existing Reports: Discover how to add new fields to existing reports for additional information.
- Create Parent-Child Relationship: Understand how to establish a parent-child relationship in reports.
- Summary Row: Learn to create summary rows in reports for aggregated data.
- Remove Gap: Discover how to remove gaps in reports for a cleaner presentation.
- How to Create Multiple Table Formats: Explore the process of creating multiple table formats in reports.
- How to Add Client Logo: Learn how to add a client's logo to reports for branding purposes.
- Changing Text and Attributes in Notepad: Understand how to make text and attribute changes in Notepad for report customization.
- Quiz

User Defined Attributes (UDA)

- Introduction: Learn about User Defined Attributes and their significance in Tekla.
- UDA and Rules to be Followed: Understand the rules and best practices for using UDAs effectively.
- Properties of Objects.inp: Explore the properties of the objects.inp file for managing UDAs.
- Adding UDAs to Existing Objects.inp: Learn how to add UDAs to existing objects.inp for custom information.
- Create New Objects.inp File at Part Level: Discover how to create a new objects.inp file at the part level for specific requirements.
- New UDAs at Project Level: Understand how to add new UDAs at the project level for broader use.
- Quiz

Lotting

- Create a lot: Learn how to create a new lot to organize parts efficiently.
- Add Parts to Lot: Understand the process of adding parts to a created lot.
- Remove Parts from Lot: Discover how to remove parts from a lot when needed.
- Check Exceeding Weight Limit: Learn to check and manage weight limits for lots.
- Quiz

Keyboard Shortcuts

- Introduction: Get familiar with the concept of keyboard shortcuts for improved productivity.
- Modeling Shortcuts: Learn essential keyboard shortcuts for modeling tasks.
- Drawing Shortcuts: Explore helpful keyboard shortcuts for drawing-related operations.
- Export and Import and Share with the Team: Understand how to export, import, and share custom keyboard shortcuts with the team.
- Quiz