



## Curriculum Of Tekla

### THE MOST ADVANCED BIM SOFTWARE FOR STRUCTURAL WORKFLOW

Tekla Structures is the most constructible structural software for BIM. With it, you can create, combine, manage and share accurate multi-material 3D models full of construction information. You can use Tekla Structures for design, detailing and information management from conceptual planning to fabrication and construction on site.

### BENEFITS OF LEARNING TEKLA STRUCTURES.

- Faster learning curve using the most popular and demanding software.
- Contemporary way of working - giving you & your company a definite competitive engineering edge.
- Enjoy the benefit of real-time 3D modelling (2D Drawings becomes a by-product of 3D model)
- Design a variety of structures using steel, concrete or other materials.
- Intelligent model creation of any size or complexity with ease and precision.
- Link with third party application, automatic generation of drawings, reports or other output from the Single 3D model.
- Revisions are much easier because the drawings and reports are fully integrated into the model
- Leading 4D tool to manage and track project status.

### OUR COURSES

#### SYLLABUS FOR TEKLA STRUCTURES STEEL INTERMEDIATE COURSE

#### THIS COURSE INCLUDES

Over view of Tekla Structures, Basic & Advance 3D Modelling, System Components, Interactive Modelling & creating Custom Components, Modelling Techniques & shortcuts, Structural Profiles and materials, Numbering and generating reports, Principles of working with drawings & cloning, Creating General arrangements drawings, Creating Assembly Drawings, Creating Single Part Drawings, Creating Anchor Bolt Plans, Multi Drawings and numbering, Revision Control and Drawing Management, Modelling Stairs & handrails, Extracting Bill of Material and finally Circular Platform 3D modelling and detailing,

Our training programmes are designed by 7 levels to help you get the most out of you and this comprehensive course will teach you how to do modelling & detailing effectively using Tekla Structures.



## Curriculum Of Tekla

### MODULE 1: INTRODUCTION OF MODELLING

- Over view of Tekla Structures
- Introduction to IFC drawings
- Create New Model, Save As
- Single User & Multiuser models
- Creating Grid / add Grid line
- Creation of Views along Grid lines, View list
- Basic view
- Contextual Toolbar
- About Base point
- Member inputting & Procedure - (Column, Girder, Beam, Post, Braces, Poly beam, Curved beam, Twin profiles etc.)
- Member Orientation, Member Name & symbols.
- Material Grade, Finish Code
- Filtering Option
- Surface treatment

### MODULE 2: MODELLING TOOLS / COMMANDS

- Construction line, construction circle, Points
- Measuring Tools
- Split & Combine
- Move, Copy, Mirror, to another plane
- Polygon cut, Line cut, Part cut, Fit part
- Weld, Weld Properties & Polygon weld
- Bolt, Bolt Properties, Site bolts, inquire bolt parts & modify bolt parts. Slotted holes
- Inquire Object, inquire assembly, Remove from assembly
- Selecting switches & snapping
- Attach material to part
- Chamfer edge
- Rendering Options
- Work area / Work plane
- Switch to 3D or plane
- Usage of Clip plane
- Clash check manager

### MODULE 3: APPLICATIONS & COMPONENTS

- Joints & Connections
- Base plate, Haunch, End plate, Splice, Fin plates, Shear plate



## Curriculum Of Tekla

- Clip angle, Bolted gusset, Stiffened end plate, Stub connection
- Joining plates, Tube gusset, Swap handles, Box girder
- Doubler plate, Gusset Stiffeners, Man lock beam / column
- Batten plates, Wing plates, Hole Generation, Stiffeners.
- Welded connections etc....
- Weld through components
- Create basic Custom components

### MODULE 4: NUMBERIN & REPORTS

- Entering Project properties & Phase Manger
- Assign Phases- (Phase by Objects, Objects by Phases, Modify Phase)
- Affects numbering
- Numbering settings & Perform Numbering
- Change Number Options (Part & Assembly)
- Creating various Reports to shop & site - (BOM, Drawing list, Bolt list, Material list etc)

### MODULE 5: INTRODUCTION TO DRAWING CATEGORIES& DRAWING LIST

- Drawing Properties & Drawing Creations
- Creating GA drawings (30 model, Plan views, Elevations etc.)
- Editing GA drawings (Dimensions, Section views, Detail views Weld mark, Level mark, Symbols)
- Export drawings DWG or DXF
- Hide Objects & Show Objects
- Customize grid labels
- Draw cover-up rectangle, polygon & line
- Add Text & Add associative note
- Area in drawing view / Screen shot / Rotate drawing view
- Drawing tools, / Excel to Drawing
- Creating Assembly drawings & cloning
- Updated drawings/ General Notes / UDA
- Clone Drawing (Current model /from another model)
- Creating single part drawing
- Creating Multi drawing
- Revision Handling & Printing

### MODULE 6: MISCELLANEOUS STEEL

- Inputting Handrail, / Ladder / Safety Gate / Stair
- Create Drawings- GA, Assembly, Single part, Multi.



## Curriculum Of Tekla

### MODULE 7: CIRCULAR PLATFORM

- Modelling Main steel
- Modelling miscellaneous steel
- Creating drawings