



SMARTPLANT 3D

ADMINISTRACIÓN



Contenido del Curso

1. SP3D Setup y Administración

DURACIÓN

5 Días

Días 1, 2 y 3

Instalación del Software

- Instalación de Base de Datos
- Instalación de SmartPlant 3D

Creación de las bases de datos

- Creación de site y catálogo
- Creación de plantas

Permisos y control de acceso

- Permisos de base de datos
- Permisos de planta

Organización de la planta

- Jerarquía
- Especificaciones permitidas
- Distribución de espacios
- Work Breakdown Structure

Procedimientos de seguridad y recuperación

- Backup de SmartPlant 3D
- Backup de Oracle
- Recuperación In-Place
- Recuperación en otro server
- Recuperación como copia

Referencias a PDS

- Setup

Control de interferencias

- Modo server

Día 4 y 5

Catalog Overview

- SmartPlant 3D Database Architecture
- Catalog & Catalog Schema Databases
- Delivered Backup Catalog vs New Catalog
- Delivered Reference Data
- Organizational Hierarchy
- Custom Interfaces – Attribute Management
- Part Classes and Parts

Bulkload Utility

- Create New Catalog
- Add/Delete/Modify/Replace mode
- Flavors
- Excels format sheet



2. SP3D Equipment, Piping, Electrical & Structural Reference Data Training

DURACIÓN

5 días

Equipment Reference Data

Part Classes & Parts

- Overview – Example: Equipment Class
- Definition section
- Part section

Custom Interface sheet

- Overview
- Occurrence attributes
- Custom attributes
- Excel format sheet

Piping Reference Data

- Overview
- Delivered Piping Reference Data

Piping Specification Overview

- Piping Material Class Data
- Piping Material Class Rules
 - Service Limits Rule
 - Nominal Piping Diameter Rule
 - Default Change of Direction Rule
 - Bend Angle Rule
 - Branch Insertion Rule
 - Weld Clearance Rule
 - Pipe Takedown Parts Rule
- Piping Commodity Filter
 - Short Code
 - Option Code
 - Selection Basis
 - Multi Size Option
 - Commodity Code
 - Bend Radius Multiplier
- Piping Commodity Material Control Data

- Contractor Commodity and Industry Commodity Code
- Material Descriptions
- Gasket Requirements
- Bolting Requirements
- Welding Requirements

Piping Specification Validation

- Verify Consistency between Piping Specification and Catalog tool
- Database Verification/Consistency Checks

Piping Commodity Part Data

- Overview – Example: Equipment Class
- Definition section
- Part section
- Excel format sheet

Piping Specification Rules

- Project Default Option
- Short Code Hierarchy
- Default Commodity Selection Rule
- End Preparation Compatibility Rule
- Mating Mechanism
- Port Alignment Rule
- Permissible Taps Rule
- Weld Model Representation Rule
- Weld Type Rule
- Standard Notes Data

Connection Selection Filters

- Gasket Selection Filter
- Bolt Selection Filter
- Nut Selection Filter
- Washer Selection Filter

Piping Commodity Generic Data

- PlainPipingGenericData sheet
- PipingGenericDataBolted sheet
- PipingGenericDataFemale sheet

Bolt Length Calculations

- Bolt Extension Length



- Preferred Bolt Length Rules

Synchronization between Model & Catalog

- Workflow

Valve Operators

- Overview
- Valve Operator Type
- Delivered Valve Operator Part Classes
- Delivered Valve Operator Symbols

Instrument & Specialty Items

- Overview
- Stock Item vs Custom Items
- Instrument Class Data
- Piping Specialty Class Data
- Delivered Instrument/Specialty Part Classes
- Delivered Instrument/Specialty Symbols

Optional Piping Material Class Rules

- Optional Specification Rules
- Questions & Answers

Electrical Reference Data

- Catalog and specification databases
- Adding a new part to the catalog
- Cableway specifications
- Cabletray specifications
- Cable specifications
- Conduit specifications Symbol 2D

Structural Reference Data

- Catalog and specification databases
- Symbol 2D
- Adding user-defined sections
- Adding a new slab type

3. SP3D Drawings

DURACIÓN

2 días

Editing Borders

- Edit Border
 - Label
 - Report
 - Graphics
 - Settings
 - Units
 - Styles

Creating Drawing Type

- Volume Template
 - Place View Area
 - Style
 - Scale
 - Orientation
 - Place Key Plan

- Save as Package

Creating View Styles

- Filter Overview
 - Default Filters
 - Select by Filter to test
- View Styles
 - Copying
 - Tests
 - Filters
 - Orientation and Clipping
 - Actions
 - Labels
 - Graphics
 - Dimensions
- Graphic Rules
 - VHL
 - Line Styles
 - Line
 - Replace with line



- Replace with line and widget
- Line Style Editor
- Replace with Symbol

Advanced View Styles

- Custom Rules
 - MakeDrawable
 - Replace with Point
 - EquipmentNozzleSeparator
 - WeldtoLine
 - ElbowtoArc
- Resolution
- Z-order
- Matchline
- North arrow

Labels Rules

- Label Editor
- XML and Symbol
- X & Y labels
- Graphical Labels

4. SP3D Reports

DURACIÓN

2 días

5. SP3D Isometrics Drawings

DURACIÓN

1 día

Workflow

Options Browser

Creation New Styles

Import MicroStation DGN borders files

Create Package and setup hierarchy

Drawing Frame

Dimension Rules

- X & Y
- Anchor
- Style

Defining Filter Based Reports

- Query
- Query Parameters
- Formatting
- Formatting Parameters

Defining SQL Query Based Reports

Loading Reports to Catalog

Data model overview

Defining Tooltip Labels

Loading Labels to Catalog

Drawing Definitions

Drawing Dimensioning and Coordinates

Labels

Bolt Set and Gasket ownership

Material List

Symbol Mapping

Troubleshooting



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