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Download Resource files from www.tutorialbook.info Table of Contents Introduction Chapter 1: Creating P&IDs Starting AutoCAD Plant 3D 2021: An Overview about Projects in AutoCAD Plant 3D Tutorial 1 Creating a New Project Creating a New Drawing Changing the Workspace Viewing the Drawing Properties P&ID Symbolology Standards Placing Equipment Editing the P&ID Symbols Adding Nozzles to the Equipment Creating Schematic Lines Assigning Tags to lines P&ID Painter Placing Valves and Fittings Placing Instruments Creating Instrumentation Lines Placing the Field Discrete instrument symbol Creating the Pneumatic Signal lines Adding Off page connectors Checking the Drawing Tutorial 2 Creating a Custom symbol and converting it into a P&ID symbol Creating the Secondary Line Segments Connecting the Off page connectors Exercise 1 Tutorial 3 (Editing the P&ID) Applying Corners Adding Gaps to lines Reversing the Flow Direction Modifying the lines using grips Substituting the Symbols Tutorial 4 (Defining a new Class) Adding Annotations to the Symbol Chapter 2: Data Manager Tutorial 1 (Managing Data) Filtering the Data Exporting the Data Assigning Tags using the Data Manager Tutorial 2 (Creating Project Reports) Modifying the Project Reports Chapter 3: Creating Reports Tutorial 1 (Generate Reports) Tutorial 2 (Creating a New Report Configuration File) Tutorial 3 (Editing the Report Layout) Chapter 4: Creating Plant 3D Model Creating a Plant 3D Drawing Tutorial 1 (Creating Structural Model) Creating Layers Creating the Grid Structural Member Representation Creating Footings Creating Structural Members Increasing the length of the Structural Members Extending the Structural Members Trimming the Structural Members Using the Cut Back Member command Using the Miter Cut Member command Using the Structure Edit command Adding Platforms Adding Stairs Adding Railings Using the Structure Explode command Adding Ladders Tutorial 2 (Adding Equipment) Creating an Equipment using Pre-Defined Shapes Adding Nozzles Using the Convert Equipment command Modifying Nozzles Chapter 5: Creating Pipes Using the Spec Viewer Editing Specs Opening Specs Creating a New Spec Using the Common Filters in Catalog Browser Adding Parts to the Spec Editing Parts Part Use Priority Editing Specs in a Spreadsheet Tutorial 1 (Using P&ID Line Lists to create Piping) Tutorial 2 (Using the Routing tools to create Pipes) Tutorial 3 (Using the Line to Pipe command to create Pipes) Knowing about the Compass Tutorial 4 (Editing Pipes) Tutorial 5 (Creating Stub-in and Tee joints) Creating Elbows and Pipe Bends Tutorial 6 (Creating Sloped Pipes) Tutorial 7 (Creating offset piping) Tutorial 8 (Adding Insulation and Welds to Pipes) Tutorial 9 (Adding Inline assets) Editing Inline assets Adding Inline Assets at Pipe ends Adding Custom Parts Tutorial 10 (Adding Pipe Supports) Tutorial 11 (Validating Project Drawings) Validating the 3D model Chapter 6: Creating Isometric Drawings Specifying Iso Styles and other settings Annotation and Dimension settings Creating New Iso Styles Generating a Quick Isometric Drawing Generating Production Isometric Drawings Adding Isometric Messages and Annotations Export the Piping data to PCF format Locking Pipes after creating their Isometric Drawings Chapter 7: Creating Orthographic Drawings Creating Adjacent Views Editing Ortho Views Updating and Deleting Ortho Views Adding Bill of Materials Adding Annotations and Dimensions Updating Dimensions Using the Locate in 3D Model and Pipe Gap commands Chapter 8: Working in a Project Using the Project Manager Changing the General Project Settings Using the Export to AutoCAD option Chapter 9: Publishing and Printing Publishing a Drawing to DWF format Publish a Drawing using Page setup Introduction This book introduces you to AutoCAD Plant 3D 2021, which is used to create Piping and Instrumentation diagrams and design a 3D Plant model quickly. AutoCAD Plant 3D is the product of Autodesk. It was first released to help the process and power industry in the year 2007. It also includes AutoCAD P&ID. This software is designed to create Piping and Instrumentation Diagrams and then design a 3D Plant model based on the P&ID. A P&ID (Piping and Instrumentation Diagram) displays the connections between the equipment of a process and the instrumentation controlling the process. A P&ID is created using standard symbols. In AutoCAD Plant 3D, you can create P&IDs using symbols related to various standards such as PIP, ISO, ISA, DIN, and JIS-ISO. You can create 3D Models using predefined and user-defined parts. You can then relate the 3D model to the corresponding P&ID. After creating the 3D models, you can use them to generate Orthographic, elevation, and section views. You can also create Isometric drawings, which can be used to manufacture. AutoCAD Plant 3D is based on AutoCAD User-interface. However, the intelligent 2D/3D symbols and the connected Database are the main features of this application. You can use this database to generate reports, create annotations, and so on. When you change the attributes of various symbols, the annotations are updated automatically. In AutoCAD Plant 3D, you create everything inside a project in order to make your design consistent. You can create a project on a Standalone workstation or a Network. Creating a project on a Network synchronizes your work with your team members. You can also use the validation tools to check any errors inside the project Chapter 1: Creating P&IDs Starting AutoCAD Plant 3D 2021: To start AutoCAD Plant 3D 2021, click the AutoCAD Plant 3D 2021 icon on the Desktop. Alternatively, click the Windows icon at the bottom left corner, swipe or scroll to the AutoCAD Plant 3D 2021 folder, and then click the AutoCAD Plant 3D 2021 icon; the Autodesk AutoCAD Plant 3D 2021 window appears. An Overview about Projects in AutoCAD Plant 3D AutoCAD Plant 3D is a project-based application. It stores every object in the Project database. The Project Manager palette helps you to access the project files from the database and work inside a project. You can examine the Sample Project to get an overview of the project workflow. Click Current Project drop-down > Sample Project on the Project Manager to load it. The Project Manager consists of many drawing types, namely, P&IDs, 3D piping, orthographic drawings, and isometric drawings. Also, there are some additional files, such as spreadsheets. The program arranges all these data in different tabs on the Project Manager: Source Files, Orthographic DWG, and Isometric DWG. On the Source Files tab, the P&IDs, Plant 3D drawings, Pipe Specs, and related files are arranged in a folder hierarchy. The Orthographic DWG tab contains the plan view and elevation drawings. The Isometric DWG tab contains isometric and spool drawings arranged in folders. The orthographic and isometric drawings are created from the 3D Model. Tutorial 1 In this tutorial, you start a project and then create a P&ID (Piping and Instrumentation Diagram). Creating a New Project The first step in the design process is to create a project. The project has a set of files and standards. Start AutoCAD Plant 3D 2021. On the initial screen, click the New button under the Project section. Enter TUTORIAL PROJECT in the Enter a name for this project field. Specify the location of the program generated files and supporting files. Click the Next button; the Specify unit settings page appears. Select Imperial to define the units for project drawings. Click the Next button; the Specify P&ID settings page appears. Specify the directory to save the P&ID files. Select PIP as the P&ID symbology standard to be used. Click the Next button; the Specify Plant 3D directory settings page appears. Click the Next button; the Specify database settings page appears. Select the Single User - SQLite local database option if you are working on a standalone workstation. If you are working on a server, select the Multi-User - SQL Server database option, and configure the server settings. Click the Next button; the Finish page appears. Click Finish to create a new project. If you want to open an already existing project, then select Open from the drop-down on the Project Manager (or) On the ribbon, click Home > Project > Project Manager > Open Project. On the Open dialog, browse to the location of the project and select the .xml (extendable markup language) file. This file stores all the information about the project. It is recommended that you should not edit or rename this file. Note that you can open only one project at a time. If you want to open another project, then you need to close all the files related to the currently active project. In AutoCAD Plant 3D, you need to use the Project Manager to open or create a file. You should avoid using the New and Open icons of the AutoCAD

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