



■ **MORE KNOWLEDGE. MORE POSSIBILITIES. MORE SUCCESS.**

Implementation Brochure

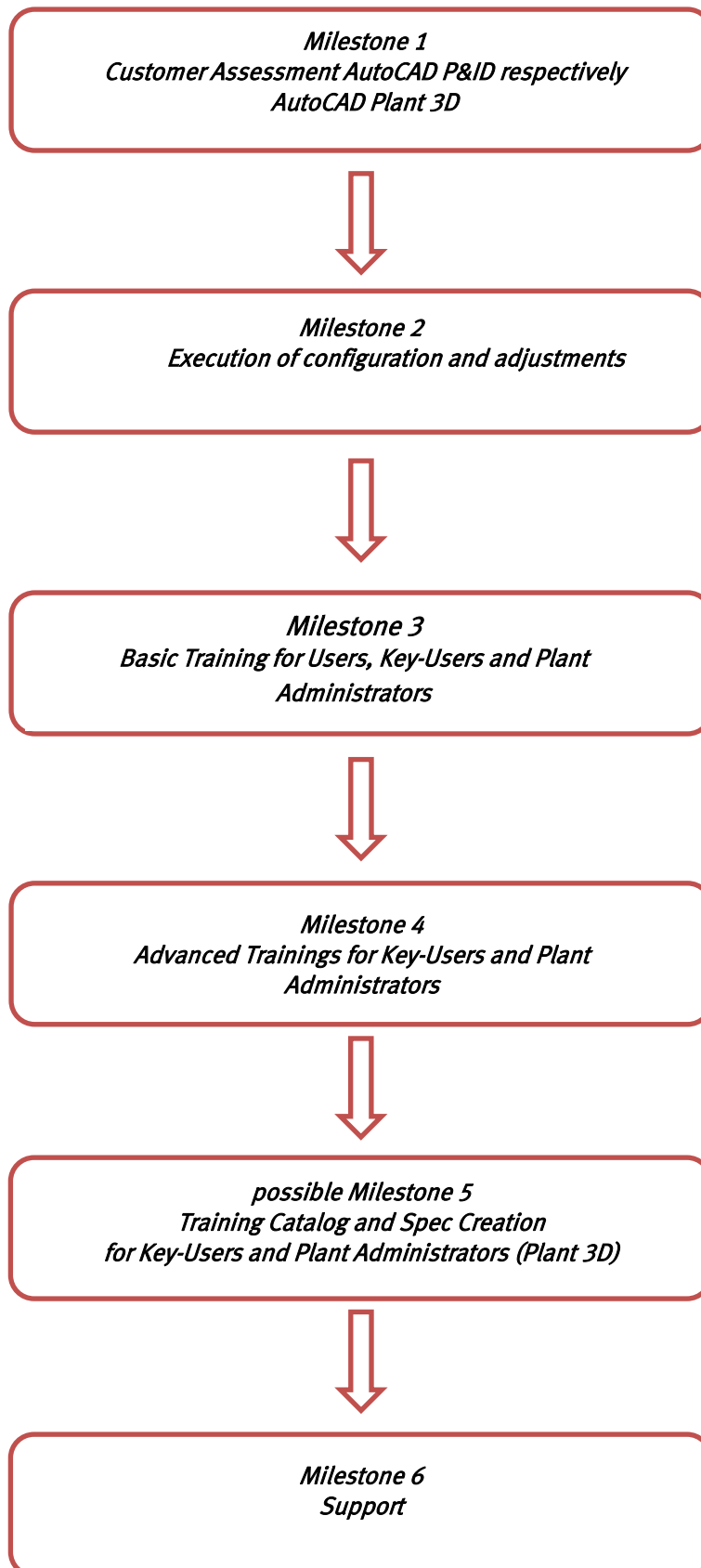
AutoCAD P&ID und AutoCAD Plant 3D



www.cadstudio.com

Recommended Implementation Plan
AutoCAD P&ID und AutoCAD Plant 3D

As we already accompanied many satisfied customers when they implemented Autodesk's Plant products we recommend to follow our implementation plan.



Milestone 1: Customer Assessment AutoCAD P&ID respectively AutoCAD Plant 3D

AutoCAD P&ID and AutoCAD Plant 3D is an easy to use and very powerful software solution from Autodesk Plant Solutions. AutoCAD P&ID allows users to create, maintain and revise piping and instrumentation diagrams in shorter time, with tools that are more powerful than regular AutoCAD and with the capability of creating reports. AutoCAD Plant is build to let users create and design 3D piping models including the necessary equipment, steel structure(s) and piping supports. In addition, AutoCAD Plant 3D is capable of creating highly detailed 2D orthographic drawings and to generate a single or multiple Isometric drawings.

But Autodesk's Products are made for the global market and underestimated however, is the configuration of a reference project that is needed to generate all future projects and piping and instrumentation diagrams.

Many companies have requirements for their software that go far beyond the standard configuration. In the order to realize company-specific adjustments, optimization of processes or enhancements of functionality, CADSTUDIO offers many years of know-how to achieve this goal through its consulting services

To be sure that AutoCAD P&ID and AutoCAD Plant 3D meets your requirements and to define a workflow we suggest to do a customer assessment. Our basic and advanced training gives the user more than enough knowledge to use the Autodesk software professionally. However, in most situations, users who work with the software do not have enough experience to generate a reference project. Our application engineers have already generated a lot of configurations all over the world and would like to do this work for you.

During this workshop we advise you how to work with the software, what is possible and clarify all settings, components and specifications, for not only our application engineer(s), but also to standardize the way how the 3D models in your company will be created.

After the workshop you will receive an implementation plan. In the implementation plan, the time needed to create the reference configuration is noted. Also written down the customer symbols, tagging rules, labels and annotations that have to be made.

Together with the implementation plan you receive a quotation so that you know which budget is necessary to implement the software as well as possible. After that it's time for Milestone 2.

Milestone 2: Execution of configuration and adjustments

Based on the outcome of the implementation plan we will do the configurations and adjustments. After that a reference project with all necessary settings and symbols is generated and Milestone 3 might start.

If you don't want to do the customer assessment first we also offer standard configurations for AutoCAD P&ID and Plant 3D.

A standard configuration for AutoCAD P&ID will last 3 days on site:

On day 1 we discuss all the information which is needed for a standard configuration for AutoCAD P&ID.

Settings for AutoCAD P&ID (Symbols, Tags, Annotations, Data Fields (Properties), Drawing Border and Title Block, Layers, Colors, Text Style). In day 2 and 3 we do the configuration of the reference project on site.

A standard configuration for AutoCAD Plant 3D will last 3 days on site:

On day 1 we discuss all the information which are needed for a standard configuration for AutoCAD P&ID.

Settings for AutoCAD P&ID (Symbols, Tags, Annotations, Data Fields (Properties), Drawing Border and Title Block, Layers, Colors, Text Style, Catalogs and Pipe Specs, Settings for Isometrics)

In day 2 and 3 we do the configuration of the reference project.

To expand or make changes on the reference project, the user requires a skill level based on our advanced training. Working knowledge of piping and instrumentation diagrams is preferred but not necessary; knowledge on an advanced level of AutoCAD is advisable. Knowledge of company rules, settings, standards and procedures is essential.

Milestone 3:

After the configuration is done and a reference project has been generated, it's time for the trainings.

Basic Training for Users based on your reference project

Training AutoCAD P&ID Basic

Duration: 2 days at your location on your computers

Max. Number of participants: 5

Requirements: experience in AutoCAD

Course content (amongst other things):

- AutoCAD P&ID and the User Interface
- The Project Manager
- Creating an P&ID, placing equipment, creating pipe lines
- Placing inline components and instruments
- Placing annotations
- Modifying equipment, inline components and lines
- General Project settings
- Sharing AutoCAD P&ID drawings with other users
- Validate project, solving errors
- The data manager, working with data
- Export and import data
- Creating reports
- Plotting and publishing

Training AutoCAD Plant 3D Basic

Duration: 3 days at your location on your computers

Max. Number of participants: 5

Requirements: experience in AutoCAD

Course content (amongst other things):

- AutoCAD Plant 3D and the User Interface
- The Project Manager, creating a new project
- Navigation Tools
- Creating a steel structure
- Creating equipment models using the Plant 3D equipment modeler
- Routing 3D piping
- Autoroute pipe, line t- pipe
- Place inline components
- Modify equipment, steel structures, piping routes
- Creating orthographic and isometric drawings
- Data manager, edit data, export and import data
- Publishing drawings

Milestone 4:

After the Basic Trainings are done we recommend to train the Key-Users to be able to take care of the reference project.

Advanced Training for Key-Users and Plant Administrators to be able to do configurations on the project template:

Training AutoCAD P&ID Advanced

Duration: 2 days at your location on your computers

Max. Number of participants: 4

Requirements: experience in AutoCAD P&ID (Basic Training)

Course content (amongst other things):

- How AutoCAD P&ID works
- General settings, general properties
- Understand classes of P&ID
- Adding properties
- File name format
- Symbol creation, class- and symbol types
- Line creation
- Tags and annotations
- Acquisition of properties
- Instrumentation
- Custom reports, import & export settings
- Tool palettes

Training AutoCAD Plant 3D Advanced

Duration: 3 days at your location on your computers

Max. Number of participants: 4

Requirements: experience in AutoCAD Plant 3D (Basic Training)

- How AutoCAD Plant 3D works
- General settings, general properties
- Understand classes of AutoCAD Plant 3D
- Adding properties
- File name format
- Custom reports, creating reports, import & export settings
- Set up Isogen drawings, layer and color settings, joint settings
- Tag creation and annotation creation
- AutoCAD Plant 3D Spec Editor
- Create a new catalog and components
- Convert catalogs, Work with specs, edit spec data, create a new spec
- Work with branch tables, create a new branch table
- Synchronize spec and catalog

possible Milestone 5 for AutoCAD Plant 3D:

for those Key-Users who would like to create Catalogs and Specs

Training Catalog and Spec Creation

Duration: 2 days at your location on your computers

Max. Number of participants: 5

Requirements: Advanced Training AutoCAD Plant 3D

Creating new parts by using scripts

Creating new parts by using blocks

Using the catalog generator

Copy/Change existing parts

Create/Modify catalogs

Create/Modify specs

Create branch tables

Create you own properties in catalog and spec

End types and there usage

Milestone 6: Support

For your daily work we recommend to close a support contract:

This contract contains an allowance for up to a number of hours technical support by our competent manpower with a current time of 12/24 months for the following Software:

- AutoCAD P&ID/Plant 3D

Hotline:

- Service-times: Monday - Friday 08.00 a.m. - 05.00 p.m. (except on public holidays) in English by e-mail, telephone or GoToAssist

- Direct accessibility of the CADSTUDIO Plant Support including call-backs

- Helpdesk System with reporting: support@cadstudio.com

- Trouble shooting during a failure

- Online remote support by GoToAssist

Consulting Sevices:

- Analyzing project setup

- Providing solutions for project setup

- Analyzing and providing PlantTools configurations

Not included:

- Trainings

- Software Installation

CADSTUDIO will work on the support questions within one day and give a status report till the next working day. CADSTUDIO doesn't guarantee to solve every technical support problem.

The contingent will be invoiced in advance and has to be paid before using it. The consumed hours will be noted and reported.

EXCERPT OF OUR PLANT CUSTOMERS:

GERMANY:

*Anlagenplanung + Elektrotechnik
APRO Ingenieurbüro GmbH
B+B Engineering GmbH
Bayer AG
Balcke-Dürr GmbH
BASF Coatings GmbH
Bayer Schering Pharma AG
BOKELA Ingenieurgesellschaft für Mechanische Verfahrenstechnik mbH
BWT Pharma & Biotech GmbH
CMI UVK GmbH
DELTA Planung GmbH
DÜRR SYSTEMS GMBH
E&P Anlagenbau GmbH
emc Germany GmbH
ENVIROTHERM GmbH
Evonik Industries AG
Fluid Solutions GmbH
GEOCONSULT GmbH
Glatt Ingenieurtechnik GmbH
GIP Gesellschaft für Industrieanlagenplanung mBH & Co KG
Henkel AG & Co. KGaA
ILS-Integrated Lab Solutions GmbH
INTEGRAL Projekt GmbH & Co. KG
Intelligentplant Engineering GmbH
Karlsruher Institut für Technologie Campus Nord
Konstruktionsbüro Theußen
Kraftanlagen Heidelberg GmbH
Kress Maschinen- und Anlagen Konstruktions GmbH
Loesche GmbH
Martinswerk GmbH
Messer Industriemontagen & Apparatebau GmbH
M+W Group GmbH
MTU Onsite Energy GmbH
Roche Diagnostics GmbH
SAACKE GmbH
Schrader Rohrleitungsbau GmbH
SMS Siemag AG
SPX Cooling Technologies GmbH
Stadtbetrieb Zentrale Dienste Landeshauptstadt Düsseldorf
STRABAG Umweltsysteme GmbH
Tebodin Peters Engineering GmbH
TESIUM GmbH
Umicore AG & Co. KG
Wandschneider + Gutjahr Ingenieurgesellschaft mbH*

AUSTRIA:

ANDRITZ AG

AGRANA Fruit Austria GmbH

BDI-BioEnergy International AG

Benda-Lutz Werke GmbH

Bilfinger Bohr- und Rohrtechnik GmbH

Bilfinger Industrietechnik Salzburg GmbH

Büro Dr. Lengyel ZT GmbH

CES clean energy solutions GesmbH

Gastechnik Himmel GmbH

GE Jenbacher GmbH & Co OHG

ILF Consulting Engineers Austria GmbH

Lechner & Partner Ingenieure GmbH

Omya GmbH

Ovivo Aqua Austria GmbH

Penta Process GmbH

Schatz GmbH Technisches Büro

Siemens AG Österreich

SMB Industrieanlagenbau GmbH

Stiefmüller Hohenauer & Partner GmbH

SynCraft Engineering GmbH

Vogelbusch Biocommodities GmbH

VTU Penta GmbH

Wien Energie GmbH

AUSTRALIA

CRISTAL

Curtin University of Technology

DEC-MECH PTY LTD

Glencore Technology Australia

Jord International Pty Ltd

Suez Water & Treatment Solutions

TURNKEY Group

BELGIUM:

Hyline N.V. (Clemessy Group)

OWS nv

PRAYON sa

VDAB Competentiecentrum Industrie

WATERLEAU Group N.V.

GPE Gorinsek Project Engineering

Umicore NV

CANADA:

*JNE Consulting
SNC-Lavalin
Urban Systems
WSP Canada Inc.
Husky Energy Inc.
Met-Chem Canada Inc.
Seneca*

DENMARK

*Aalborg Energie Teknik A/S
BK Engineering
Cowi A/S
Haldor Topsoe A/S (HQ)
Krüger A/S
Ramboll Danmark A/S
Weiss A/S
Aalborg CSP A/S
Aalborg Engineering A/S
Bigadan A/S
DSS Silkeborg A/S
Haarslev Industries A/S
NNE Pharmaplan A/S
SILHORKO-EUROWATER A/S
Yara Praxair A/S*

FINLAND:

*Ehox Tuote Oy
Citec Engineering Oy Ab
WARTSILA FINLAND OY*

FRANCE:

*Johnson Controls Industries SAS
AJINOMOTO EUROLYSINE S.A.S.
ANTARGAZ
APPI
ATIEP
SPX Flow Technology
CRODAROM SAS
SEDERMA*

GREAT BRITAIN

*GEA Refrigeration UK Ltd
PROjen House
Thermalflow
WSP UK Limited
KCA Deutag Technical Support Ltd.*

INDIA:

*Citec Engineering India Pvt Ltd
Ion Exchange (India) Ltd.*

KOREA:

*HYUNDAI HEAVY INDUSTRIES CO. LTD.
Korea Jungsu Eng co.,LTD*

LITHUANIA:

GEA Baltics UAB

NEW ZEALAND:

Beca Limited

NETHERLANDS:

*Wartsila Oil & Gas Systems AS
Atlas Copco Air & Gas Purification
BlueCielo Ecm
Cofely West Industrie BV
GEA Refrigeration Netherlands N.V.
Grontmij Nederland BV
Heijmans Infra Techniek B.V.
Howden Thomassen Compressors Service
Imtech
Imtech Industry International BV
MPE Group NV
Ovivo Holland B.V.
ProjectServe ECP B.V.
Royal Huisman Shipyard BV
RWB Water Services
S. Jaspers Engineering & Support
TSpD BV
Van Zijtveld Consulting
VIRO Engineering BV
Waste Treatment Technologies Netherlands B.V.
Waterschap Vallei en Veluwe
Weenk Engineering
Zeton BV
McCain Foods Holland BV
Stork Thermeq BV
Sustec Consulting & Contracting BV
Ireliemar BV*

NORWAY:

*K. Lund Offshore AS
Skala AS*

SWEDEN:

Sollie AB
Svensk Kärnbränslehantering AB
Petro Bio AB
Sandvik Materials Technology AB
WEEDO AB

SPAIN

Cadagua S.A.
CADTECH IBERICA S.A.
GEA REFRIGERATION IBERICA S. A.
Cockerill Maintenance & Ingénierie

SWITZERLAND:

Omya Development AG
Ovivo Switzerland AG

SLOVENIA.

Calcit d.o.o.

USA:

Cheniere Energy Inc
Manta Ventures, LLC
Middough Inc.
Shambaugh & Son, L.P.
The Lisbon Group L.L.C.
Unitel Technologies, Inc.
AMEC E&C Services
American Process Inc.
Apex engineering, PLCC
Brown and Caldwell
Burns & McDonnell
CAD-1
CC2BL, Inc
City of Tacoma
Commonwealth Engineers, Inc.
CRB Consulting Engineers
D.B. Western, Inc.
Ecad Inc.
Encore DEC
EPIC Piping LLC
Fluor Enterprises, Inc.
Gas Compressor Consultants
GEA Process Engineering Inc.
IMAGINiT Technologies
Inter-Tech, Ltd.
IPS Integrated Project Services
Jedson Engineering Inc.
M+W U.S. Inc.
M2 Group, Inc.
Malcolm Pirnie Inc.
Mesa Associates, Inc
Nordwest Engineering

*Recommended Implementation Plan
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*Ovivo USA, LLC
POET Design & Construction HQ
POWER Engineers, Inc.
Questar Pipeline
Sabine Pass Liquefaction LLC
Saulsbury Industries
SPEC Services, Inc.
Stellar
Summit Engineering and Design, LLC
U.S. Oil Trading LLC
Woodard & Curran
SNF Flopam Inc.*

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