

## SmartPlant 3D 管理和管道数据库培训函

尊敬的客户们好！

鹰图公司将在上海办公室举行一期 SP 3D 管理和管道数据库培训，具体安排如下：

日期： 2011 年 2 月 21 日至 2 月 25 日

地点： 上海市长宁区虹桥路 1452 号 古北国际财富中心 8 楼

主讲： 艾登

希望大家踊跃报名！

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培训费： 每个学员人民币 2,500 元。  
鹰图公司对每位学员**提供培训机器**。

详细的课程安排请见附件 1。

附件 1： SP 3D 管理和管道数据库培训日程

此致  
敬礼



鹰图系统（深圳）有限公司上海分公司  
2011 年 1 月 7 日

## **SP3D 管理和管道数据库培训日程介绍**

### **General Setup and Administration - 1 day**

#### **Software Installation**

- Installing Microsoft SQL Server
- Installing SmartPlant 3D
  - Server
  - Workstation
  - Programming

#### **Creating and Managing Databases**

- Site Database Creation
- Catalog Database Creation
- Plant Database Creation
- Reports Database

#### **Permissions and Access Control**

- Database Permissions
- Plant Permissions
- Approval Status

#### **Backup and Restore Procedures**

- SmartPlant 3D Backups
  - In-Place Restore
  - Off-Site Restore
  - Restore as Copy
- SQL Server Backups

## **Plant Organization**

- Systems Hierarchy
- Allowed Specifications
- Space Layout
- Work Breakdown Structure (WBS)
- Item Ownership and Access rights

## **Interference Detection**

- Setup and Configuration
- Database Detect
- Local Detection

## **Database Integrity**

- DB checks
- SP3D Error logs
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## **Interference Checking - 1/2 day**

### **Interactive interference checking**

### **Background interference checking**

### **Interference checking rules**

## **Piping Reference Data – 3 days**

### **Day1**

#### **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**

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- 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

## **Day 2**

### **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

## **Questions & Answers 1/2 Day**