Course Outline

1. **Introduction**
   - SmartPlant 3D Introduction
   - Templates/Session Files
   - Filters (Database query)
   - Views
   - Common Toolbar
   - Selecting Objects
   - Surface Style Rules
   - WBS Items
   - Common Toolbar
   - Space management
   - Inserting Reference Files
   - Placing Control Points
   - Interference Detection

2. **Piping**
   - Piping Hierarchy
   - Route Pipes
   - Inserting Components
   - Routing a Sloped Pipe
   - Routing Pipes from the P&ID
   - Placing Instruments
   - Placing Piping Specialty Items
   - Placing Taps
   - Inserting Splits
   - Manipulating Views
   - Creating Spools
   - Sequencing Objects
   - Creating Isometric Drawings
3. Equipment

- Equipment General Overview
- Placing Equipment
- Placing Equipment Component
- Equipment Positioning Relationships
- Placing Equipment Shapes
- Equipment Nozzle\Ports
- Inserting
- Manipulating Equipment
- Solid Modeling intro

4. Structure

- Placing Grids/Coordinate systems
- Linear Member System
- Copy/Paste Members
- Structure Modelling
- Slabs
- Walls
- Stair/Ladders/Handrails
- Footing
- Equipment Foundations

5. Structure

- Placement of supports
- Hangers, Spring
- Guide, Rest
- Making special pipe support