

PDMS COURSE WEEKLY CALENDAR

Week 1

Introduction to PDMS Piping. and it's Principles

Accessing the Design Environment

Using Forms.

Using Menu

Manipulating the display

PDMS Primitives- Cylinders, boxes, negative primitives etc.

E-INSTRUCTION ASSIGNMENT- PETROLEUM REFINING IN NON-TECHNICAL TERMS —Chapters 1 thru 3.

Week 2

Controlling PDMS

PDMS: Basics and Functions

Organization using a Hierarchy

Building the Draw list

Hierarchy

Parent/child relationship Creating the Site, Zone and Basic equipment. SITE=FIRSTNAMELASTNAME; =EQUI ZONE -FIRSTINITIALLASTNAME (EXAMPLE: GC-C1301) EQUI=INITIALSEQUIPMENTNAME Creating Equipment from Primitives PDMS Primitives- Cylinders, boxes, negative primitives, p points etc. E-INSTRUCTION ASSIGNMENT- PETROLEUM REFINING IN NON-TECHNICAL TERMS — Chapters 4 thru 8 Week 3 **Displaying Modeled Elements** PDMS Primitives- Cylinders, boxes, p points nozzles etc. Principles of the 3D Display Setting the View Limits and the View Direction Equipment modeling – STABILIZER 1101 Vessel nomenclature and general process Attribute in PDMS **Querying Attributes Modifying Attributes Model Editor** E-INSTRUCTION/ASSIGNMENT - FIND AND STUDY 4 DIFFERENT TYPES OF VESSEL USED IN PETROLEUM REFINING Week 4 Controlling PDMS again **Displaying Modeled Elements**

Continue Equipment modeling – STABILIZER 1101 AND STABILIZER REFLUX DRUM 1201 Reading a plot plan for equipment placement. Vessel nomenclature and general process Attribute in PDMS **Querying Attributes Modifying Attributes Model Editor** E-INSTRUCTION/ASSIGNMENT – CREATE A SIMPLE P&ID OF FRESH WATER SYSTEM FOR HOME. Page 5 of 6 Week 5 Working with the 3D Views. Multiple 3D Views Manipulating the View Heirarchy-manipulation, reordering Continue Equipment modeling -STABILIZER REFLUX DRUM 1201 AND STABILIZER REBOILER 1301 E-INSTRUCTION/ASSIGNMENT - FIND AND STUDY HOW AND WHY EQUIPMENT MAY BE LAID OUT IN Α PROCESS UNIT. . Week 6 Equipment modeling continues. REFLUX CONDENSER 1302 A AND 1302 B Renaming elements E-INSTRUCTION/ASSIGNMENT- FIND AND STUDY PDMS SYNTAX Week 7 Equipment modeling continues Position, Orientation. Move, copy, mirror. Using equipment templates

STABILIZER REFLUX PUMP-MOTOR DRIVEN 1501 A AND B
STABILIZER TOP SUCTION PUMP-MOTOR DRIVEN 1502 A AND B
E-INSTRUCTION/ASSIGNMENT- FIND AND STUDY TYPES OF VALVES AND THEIR PURPOSES
Week 8
Equipment modeling continues
COMPLETE ALL EQUIPMENT
E-INSTRUCTION/ASSIGNMENT – FIND AND STUDY ORIGANIZATION OF EASEMENTS ROADS AND
RACKS.
Week 9
Mid-Term Exam.
Begin Pipework Modeling:
Basic concepts
Piping specification
Pipework tool bar, Pipe Creation Form
Pipe Branch Head and Tail
E-INSTRUCTION/ASSIGNMENT – FIND AND STUDY 4 DIFFERENT TYPES OF VALVES
Week 10
Pipework Modeling
Equipment layout, Introduction to Pipe Routing with PDMS Handout, PDMS: Pipework
Introduction to Pipe Routing with PDMS: Pipework
Basic plant layout.
Organization of easements, roads, racks.
Begin Pipe Routing

E-INSTRUCTION/ASSIGNMENT – FIND AND STUDY 3 DIFFERENT TYPES OF INSTRUMENTS

Orientation and Positioning Component in Sloping Pipelines

Positioning Piping Items relative to Other Design Items

Week 11

Data Consistency Checker
Possible Types of Data Error
Clash Management
E-INSTRUCTION/ASSIGNMENT – FIND AND STUDY DATA CONSISTENCY ON REFERENCE MATERIAL
Week 12
Building pipework: connecting vessels
Pipe specifications
Building pipe and connecting
Pipe design
E-INSTRUCTION/ASSIGNMENT – FIND AND STUDY 3 DIFFERENT TYPES OF PIPE SUPPORT
COMPONENTS
Week 13
Continue: Building pipework: connecting vessels
E-INSTRUCTION/ASSIGNMENT – FIND AND STUDY PIPE RACKS- THEIR PURPOSE AND
ARRANGEMENTS
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Week 14
Drawing Production:
COMPLETE PIPE
Iso Production
Bill of Material
Reports
E-INSTRUCTION/ASSIGNMENT- PRODUCE A MANUAL BILL OF MATERIAL FOR THE FRESH WATER
SUPPLY SYSTEM FOR HOME
Week 15
General Semester work and Exam review

Drawing Production PDMS: Drawing Production

The project completion