Course Objectives/Course Outline
Spokane Community College

Course Title: Fluid Line Layout and Assembly
Prefix and Course Number: FLPT 253

Course Learning Outcomes:
By the end of this course, a student should be able to:

- identify and select the proper hose for any application
- select tubing based on wall thickness
- select pipe based on schedule number and nominal ID for any high or low pressure application
- apply safety factors when selecting fluid lines and fittings
- size lines and select fittings from a schematic

Course Outline

I. Fluid Conductor Material
   A. Suction Hose
   B. Pressure Hose
   C. Steel Tubing
   D. Pipe (pickled and oiled)
   E. Fittings

II. Layout and Assembly Instructions
   A. Hose and Pipe Fittings
   B. Pipe and Pipe Fittings
   C. Tube and Tube Fittings
   D. Materials
   E. Shop Tool Operation
      1. safety requirements

III. Fluid Line Selection
   A. Application