

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