International Fluid Power™ Society

Certification Empowers Opportunity.

JOB PERFORMANCE STATIONS (hands-on)

Station # 1 Identify Fluid Power Symbols:

Identify 20 components by their symbolic representation on a schematic drawing. The schematic at this station will be either Mobile Hydraulic, Industrial Hydraulic, or Pneumatic depending upon your test. You will be required to give a written explanation for each component. This is not a multiple-choice station.

Station # 2 Identify Fasteners and Fittings:

This station has ten (10) fasteners and ten (10) fittings that require identification as to type, size, length, thread, and grade. Each item has five (5) multiple choice answers from which to choose.

Station # 3 Use of Multimeter:

This station is for testing the candidate in the use of a Multimeter. There are 14 questions for readings taken on a test circuit board. It is not multiple choice. The readings are for voltage, amperage, and resistance.

Station # 4 Measure a Pump Piston and Spool:

This station tests your ability to take measurements of a part that range from 1/16" to .0001" and requires using scales, calipers, and micrometers. A pump piston and a hydraulic valve spool are used for the measurements. This is not a multiple-choice station.

Station # 5 Fluid Conductors:

Requires identifying size, type, and pressure ratings of two (2) steel tubes, two (2) rubber hoses, one (1) copper, and one (1) nylon tube. Dial calipers and datasheets are provided to aid in this task. This station is not multiple choice.

Station # 6 Tube Bend and Flare:

Bend and flare a tube assembly to fit a fixture testing the skills of measuring, cutting, flaring, and assembly for compound bending to fit a fixture. All tubing, tools, and datasheets are provided.

The IFPS believes that implementation of safe procedures is para- mount in all fluid power systems, the electrical and electronic controls that guide them, and all associated technologies. The IFPS recommends that, in every circumstance, factory, piece of mobile equipment, or application of any fluid power product or its controls, every employee and employer is responsible to know, understand, and practice the safety policies and procedures already in place. Consult manufacturer's safety specifications for each machine. **Take the responsibility to improve the safety standards whenever an opportunity presents itself**. No one knows the equipment better than the people who work with it daily – they are the most important ones to improve that equipment's safety.