



NC3 Festo Fundamental of Fluid Power - Hydraulics

Certification website: [Festo-Certification-Program-Guide FluidPower Hydraulics Pneumatics.pdf \(nc3.net\)](#)

Credential Summary

This hydraulic training course is designed to familiarize students with the construction and operation of hydraulic components. Investigating the construction and operation of a range of hydraulic equipment, this hydraulic training course covers the fundamental principles of hydraulics as well as the individual components. Valves controlling pressure, flow rate, sequence and direction of flow are included, and practical exercises are used to demonstrate their operation, based on standard symbol circuits. Maintenance and a systematic approach to fault finding are also covered.

Overview

- **Related Instructional Hours:** No requirement
- **Exam details:** Fluid Power - Hydraulics exam
- **Third party testing provider:** National Coalition of Certification Centers (NC3)
- **Exam cost:** \$0
- **Renewal details:** Certification does not require renewal

Job Opportunities

- **Relevant SOC codes**
 - Installation, Maintenance, and Repair Workers, All Other 49-9099
 - Maintenance Workers, Machinery 49-9043
 - Helpers – Installation, Maintenance, and Repair Workers 49-9098
- **Demand information**
 - Average flame ranking = 3.50/5
- **Average Wages**
 - Ranges from \$36,980 (17.78 per hour) to \$53,690 (25.81 per hour)
(Average wages pulled as of October 2023)

Knowledge, Skills, and Competencies

- Design, assemble, test, and troubleshoot basic hydraulic circuits
- Identify and describe the construction, design features, and operation of hydraulic components
- Interpret technical specifications and data relating to hydraulic components and systems
- Identify and explain graphical symbols for hydraulic components
- Describe fundamentals of oil flow



Post Secondary Relevance

- **Next level programs of study**
 - Advanced Manufacturing Technology
 - Industrial Electrical
 - Automation and Robotics
 - Mechatronics