

THIS CERTIFICATE IS PRESENTED TO

BARRETT WISE

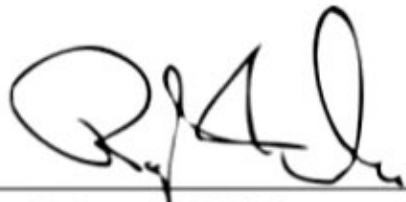
Who has been formally evaluated for demonstrating the highest levels of knowledge and skills and, as such, is bestowed the following NC3 Global Credential.

Fundamentals of Fluid Power - Hydraulics

COLLABORATE IN THE CLASSROOM. COMPETE IN THE MARKETPLACE.



Carlos Miranda, CEO of Festo North America



Roger Tadajewski, NC3 Executive Director



THIS CERTIFICATE IS RECOGNIZED BY:

FESTO



02/08/2023

Date Completed

Virginia Peninsula Community College

NC3 Certification Center

Certification Competencies

BARRETT WISE

has displayed competency of the content listed below through both cognitive and skill based assessments.

- Familiarization of basic hydraulic equipment
- Understand fundamental hydraulic concepts
- Able to build a simple hydraulic circuit
- Understand concepts related to the hydraulic power unit and hydraulic fluid supply equipment
- Knowledge of what a valve is and how valves are differentiated from one another
- Familiarization of five common valve types: pressure-relief valve, flow control valve, flow regulating valve, pressure reducing valve, and directional valve
- Able to operate the five valve types in typical hydraulic circuits
- Knowledge of the principles of operation behind hydraulic cylinders
- Familiarization of the different parameters that affect the direction of operation and speed of cylinders
- Able to study the relationship between pressure and force in cylinders
- Familiarization of basic hydraulic circuits, such as meter-in/meter-out configurations, circuits for securing a load, regenerative circuits, and sequential circuits



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