FESTO

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 Sensor Technology

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

02/07/2023

Date Completed

Virginia Peninsula Community College

NC3 Certification Center

FESTO

Certification Competencies

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

- Understand the theory and operation of a magneto-resistive proximity sensor; demonstrate how to detect the speed of a gear using a magneto-resistive proximity sensor.
- Understand the theory and operation of an inductive proximity sensor; demonstrate the sensing the position of a valve slide, inspecting food tins, and sorting washers using an inductive proximity sensor.
- Understand the theory and operation of inductive proximity sensor with analogue output; demonstrate how to measure the thickness of steel discs and sorting seals using an inductive proximity sensor with analogue output.
- Understand the theory and operation of through-beam sensor; demonstrate how to control a dip at a belt tensioner using a through-beam sensor.
- Understand the theory and operation of retroreflective optical sensor; demonstrate how to monitor an electrically operated gate using a retroreflective optical sensor.
- Understand the theory and operation of fiber-optic unit; demonstrate how to feed crown caps using a fiber-optic unit.
- Understand the theory and operation of optical diffuse sensor; demonstrate how to sort work pieces using a optical diffuse sensor.
- Understand the theory and operation of capacitive proximity sensor; demonstrate how to detect ladder rungs, monitor fill levels, detect various colored transport cases, check for the presence of threads, and monitor material feed at a press using a capacitive proximity sensor.

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