

# *Snead State Community College* **Workforce Development**



*Self-Pace Online Training*  
*Students will have six weeks to complete*

*\$100.00 per person*



## ***INTRODUCTION TO INDUSTRY 4.0 LEVEL I***

This introductory Level I course introduces the student to the basic concepts related to next generation industry practices, known as Industry 4.0. Included in the course is an introduction to manufacturing processes, safety responsibilities, industrial lean production concepts, and Internet of Things.

- \* **Introduction to Advanced Manufacturing**
- \* **Technology and Advanced Manufacturing**
- \* **Principles of Manufacturing Processes**
- \* **Basic Mechanical Elements**
- \* **Safety Responsibilities**
- \* **Machine Safety**
- \* **Types of PPE**
- \* **Equipment Safety**
- \* **Material Handling Safety**
- \* **Manufacturing Metrics**
- \* **Lean Production Concepts**
- \* **Industrial Internet of Things**
- \* **Multi-Station Mechatronic Communications**
- \* **Network Performance and Managed Ethernet Switch Operation**
- \* **Introduction to Electronic Sensors**
- \* **Smart Photoelectric Sensors**
- \* **Smart Pressure Sensors**
- \* **RFID Operation**
- \* **Basic VFD Operation**
- \* **Barcode System Operation**
- \* **Stepper Motor Indexing Systems**

*[www.snead.edu/tbiregistration](http://www.snead.edu/tbiregistration)*

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