

Digital Manufacturing Essentials

Certificate Program



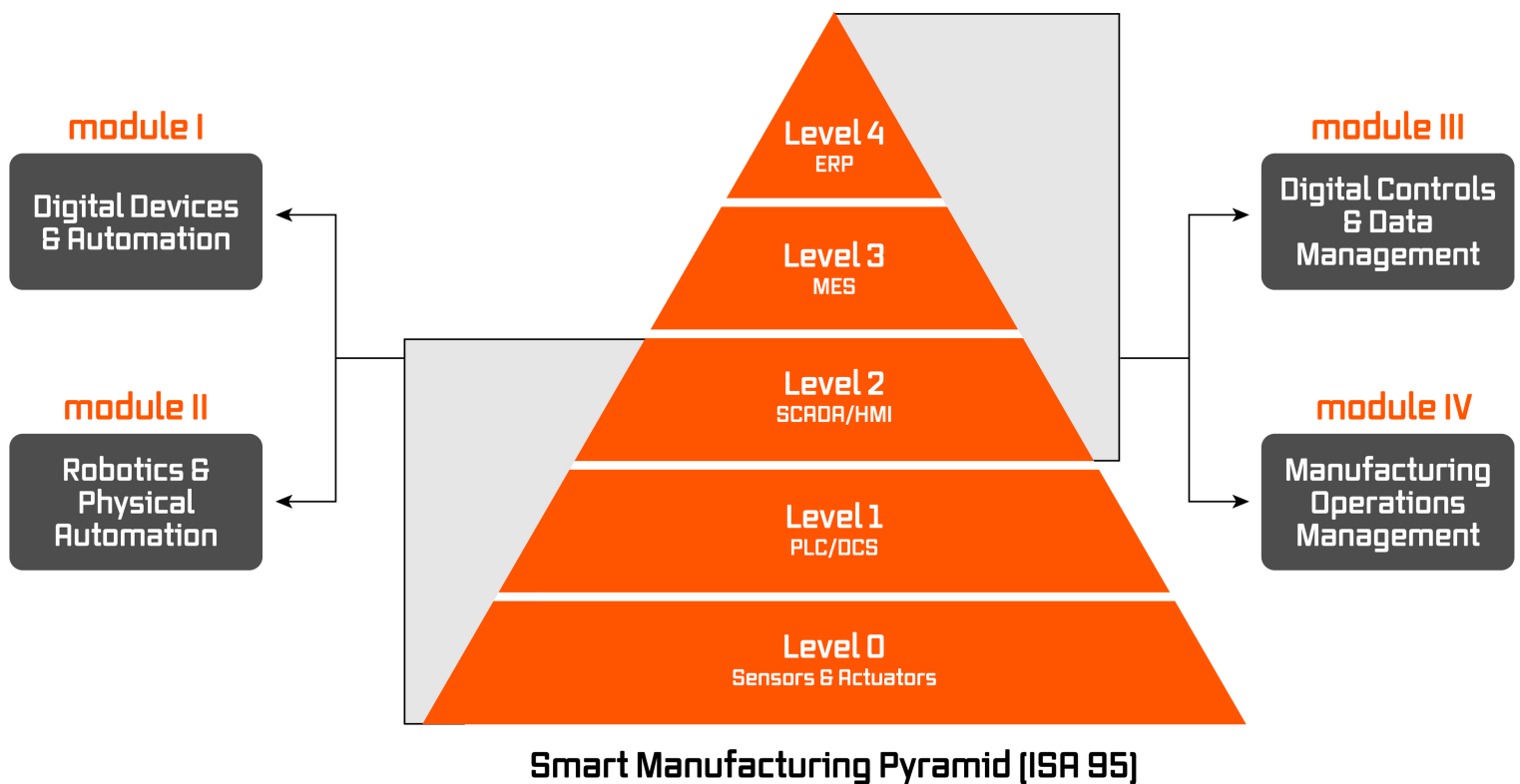
Enhance Your Understanding of
Digital Manufacturing Operations

Digital Manufacturing Series: Level 2



Funded by: U.S.
Department of
Labor's
Employment
and Training
Administration

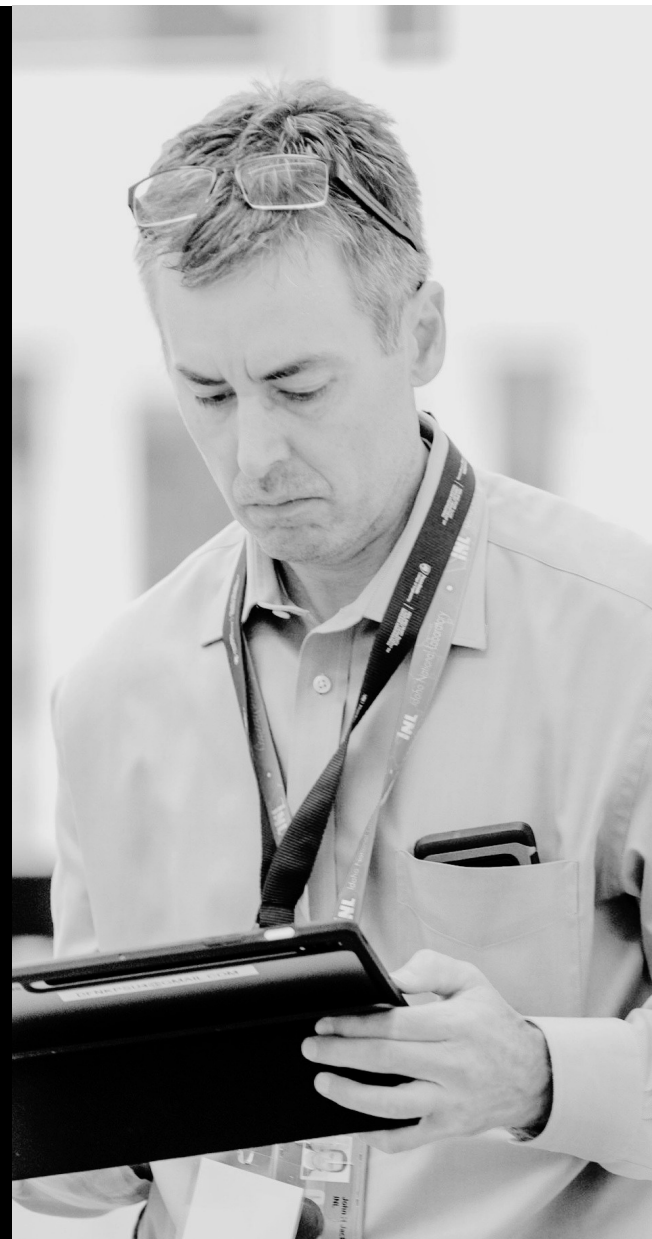




This program is tailored for individuals currently employed or with a background in manufacturing. These programs are suitable for those seeking to enhance their knowledge in smart/digital manufacturing.

Participants can choose to complete individual modules on specific topics or complete all four modules for an in-depth understanding and full certification.

Earn a Penn State Digital Manufacturing Essentials program certificate (up to 4 Continuing Education Units (CEU), 1 CEU/module).



Course Outcomes:

- Understand smart/digital manufacturing from design to operational management
- Learn essential concepts and approaches to computer-aided processes that are key to smart manufacturing production.
- Align your skills with the growing demand for sensor technology, data collection and analytics on the factory floor.
- Understand how to visualize data (dashboards) to make data-driven decisions.
- Develop a working knowledge of processes and tools for testing concepts.
- Strengthen professional and personal development skills essential to every work environment.



module I

Digital Devices & Automation



1. Sensing & Data Collection
2. Machine-to-Machine Communication
3. Operator Interface & Supervisory Control
4. Programmable Logic Controllers

module II

Robotics & Physical Automation



1. Robotics
2. Physical Automation I
3. Physical Automation II

module III

Digital Controls & Data Management



1. Digital Control Systems & Modeling
2. Data Analytics & Management
3. Data Visualization

module IV

Manufacturing Operations Management



1. Enterprise Resource Planning
2. Product Lifecycle Management
3. Lean Principles in Digital Manufacturing
4. Manufacturing Execution Systems

Interested in learning about the next Digital
Manufacturing Essentials certificate program?
We'd love to hear from you! Contact us today.

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For questions about the course, please contact
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