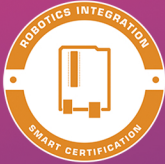
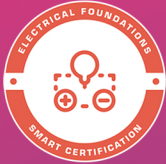


# Smart Manufacturing and Advanced Robotics Training (SMART)

## Robotics Technician Micro-Certifications



The SMART Robotics Technician Curriculum is the result of a research project funded by the ARM Institute, called the Smart Manufacturing and Advanced Robotics Training (SMART) Project. SMART consists of five micro-certification courses that focus on the Knowledge, Skills, and Attitudes (KSA) that are needed for Robotics Technicians in the Advanced Manufacturing and Robotics industry.

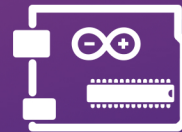
## Industry Driven Assessments



SMART partnered with companies that use Advanced Robotics Manufacturing (ARM) to bridge the knowledge gaps in technical workplace environments.



SMART studied the KSA that an ARM technician needs and develop a Department of Labor (DOL) certified SMART pre-apprenticeship program.



SMART training materials focus on a core set of micro-certifications utilize lower-costing platforms in order to lower the barrier of implementation.

## Pre-apprenticeship Credentials



Recruitment



Workforce

Community College

Apprenticeship

SMART is a PA certified pre-apprenticeship program that includes training materials that foreground and measure ARM industry competencies. The program is aligned with New Century Careers' Robotics Technician Apprenticeship Program, and is aimed to align with additional Apprenticeships.

## Robotics Competition Credentials



- ✓ Artifacts
- ✓ Exams
- ✓ Assessment



The SMART project teams with industry partners, competition partners (like FIRST and RECF), and Carnegie Mellon University to develop a set of micro-certifications that lead to Industry-aligned certifications for competition team members.