

Gateway Community & Technical College Advanced Manufacturing (FAME)

Certified April 8, 2020



Program Summary

The Advanced Manufacturing Technician Program (AMT) is a two-year (five semesters) Associate Degree that combines cutting-edge curriculum, paid working experience along with learning highly sought-after business principles and best practices of world-class manufacturers.

The college and the manufacturer work together closely to enhance student learning. In addition to gaining skill mastery in the educational portion of the program, students learn about the culture of manufacturing through manufacturing workshops such as safety culture, lean manufacturing, and problem solving. Students are provided opportunities to increase communication and presentation skills and to develop their work ethic. Students earn a wage while attending college and gain work experience with global and local manufacturers.

The Kentucky Federation for Advanced Manufacturing Education (KY FAME) is an industry-led public private partnership implementing the world-class model for developing manufacturing talent.

Strengths & Noteworthy Practices

The program design combines coursework with field training. Students are exposed to various settings and real-world situations that will further strengthen their knowledge of the subject.

Students are asked to present “5S” project results to a panel of corporate and academic stakeholders at the learner's sponsoring employer. Presentations begin with a verbal presentation using PowerPoint to guide the project overview and end by providing a tour of the project area and answering questions from stakeholders. Students are assessed using a score compiled from rubrics submitted by all stakeholders. A Kiken Yochi Training asks students to identify one work area hazard at the sponsoring employer's facility and implement a short-term and long-term countermeasure to mitigate hazard. Additionally, students lead a safety circle discussion before fellow trainees and college instructor and verbally present results of countermeasure implementation.

Employers are engaged in the program design, aligning course material with embedded, hands-on employment experience. Employers, faculty, and providers support all students throughout the program in the classroom, the worksite, and through additional, optional professional development opportunities.

