

Course Title: ADM-201 Lean Manufacturing and Quality Assurance

Course Instructor(s): Edward Bass

Programs: Advanced Manufacturing Systems

Expected Learning Outcomes

Students will understand and apply:

- Total Productive Maintenance concepts.
- Lean Manufacturing concepts.
- Six Sigma concepts.
- Team work and its benefits.
- Positive vs negative outlook and culture change.
- Problem Solving and Decision Making techniques.

Assessment

Assessments will include: exercises, assignments, projects and examinations.

Validation

1. Examinations.
2. Student application of concepts via projects and assignments.
3. Feedback from industry advisors, particularly those who hire our graduates.

Results

The results of the testing and final examination will show the level of retention of the classroom materials.

The results of the practice exercises, projects, and assignments will show the ability of the student to transfer textbook information to hands-on applications.

The results of the Advisory Committee input will allow us to place a rate of success in our database for ongoing improvement to the course and advise us of changes in technology and industry standards.

Internships will measure the student outcomes in a real world environment through feedback from internship supervisor.

Follow-up

The data will be evaluated to improve teaching techniques

The data will be evaluated to help us remain up to date with technology changes.

Budget Justification

Update textbook and practical exercises to include changes in industry best practices.