

# INT 146: F.A.M.E. MANUFACTURING CORE EXERCISE 4, PROBLEM SOLVING

This course introduces the Federation of Advanced Manufacturing Education (FAME) MCE-4 (Manufacturing Core Exercise) for Problem Solving. Students will learn how to use the eight-step problem solving model in an experiential learning environment, in conjunction with the PDCA cycle (plan, do, check and act). The eight steps students will learn to use are:

1. Clarify the problem (plan)
2. Breakdown the problem (plan)
3. Set the target (plan)
4. Analyze the root cause (plan)
5. Develop countermeasures (plan)
6. Implement countermeasures (do)
7. Monitor results and process (check)
8. Standardize and share success (act)

**Credits:** 1

**Lab Hours:** 0

**Lecture Hours:** 1