

MCE-5: Machine Reliability

December 10 – 11, 2019

Alabama Robotics Technology Park, Tanner, AL

Hosted by FAME USA, ALFAME – Rocket City, RTP & Calhoun Community College. Led by Dennis Dio Parker, founder of FAME.

The Machine Reliability Training is part of the FAME Academy and is required for college faculty of new FAME chapters and new faculty at existing FAME chapters. It is also open to employees of companies sponsoring FAME students.



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MCE-5: Machine Reliability Training

- Conclude the teaching of the 5 Manufacturing Core Exercises
- MCE-5 teaches a practice for machines and systems which:
 - Lengthens MTBF (Mean-Time-Between-Failure)
 - Prepares more effective back-up when failure does occur
 - Teaches a disciplined, problem-solving approach for sustained machine operation
 - Uses a Reliability Centered Maintenance approach focusing on Failure Mode Analysis

DAY 1

December 10

- Overview: Lean Manufacturing, MCE-3 Principles
- Current Maintenance Issues, Practices and Problems
- What is Failure Mode Analysis (FMEA)?
- Proactive tools that use FMEA
- Reliability Centered Maintenance
- Maintenance Network
- First hands-on project

DAY 2

December 11

- Second Project: The Manufacturing Simulator
 - Simulator Introduction
 - Simulator operation history
 - MCE-5 and FMEA analysis project
 - MCE-5 Report preparation
- Team Report Out using team-built MCE-5 project charts

Logistics

COST: No cost for registration. Materials are provided. Attendees are responsible for their own travel, lodging and food costs. Daily lunch will be on your own.

LOCATION: Alabama Robotics Technology Park, Middle Building, 6505 U.S. 31, Decatur, AL 35671

SCHEDULE: 8:00 a.m. – 5:00 p.m. CST (Tuesday – Wednesday)

AIRPORTS: Huntsville International Airport (HSV)

LODGING: There are several hotel options in the Huntsville and Decatur area.