

Shaft and Coupling Alignment

OEM: Rockwell Automation • Duration: 5 Days (40 hrs) • Code: MMS-245

COURSE MODULES & TOPICS

Objectives

- Identify the fundamental principles of shaft alignment
- List and identify the tools used in the alignment process
- Discuss the importance of using a pre-alignment checklist
- Identify soft foot and discuss methods to correct it
- Identify the phases of the alignment process
- Demonstrate proper alignment methods
- Discuss the factors that may affect alignment
- Discuss the importance of alignment tolerances
- Discuss methods used for non-standard alignments
- Identify the couplings used to connect shafts

Student Materials

- Student Manual includes the key concepts, definitions, examples, and activities presented in this course
- Lab Guide includes the hands-on exercises

Next Level Learning

- Pipefitting (MMS-250)

Course Agenda

Day 1

- Overview
- Recognizing Symptoms of Misalignment
- Identifying Causes of Misalignment
- Listing Effects of Misalignment

Day 2

- Using Alignment Tools
- Identifying and Correcting Soft Foot

Day 3

- Using Alignment Methods
- Listing Advantages/Disadvantages of Alignment Methods
- Using Dial Indicators

Day 4

- Performing Elevation and Horizontal Moves
- Recognizing and Compensating for Thermal Growth

Day 5

- Aligning with Multiple Feet
- Using Jackshafts
- Aligning Couplings
- Final Exercise
- Review
- Written Exam