

Gears

OEM: Rockwell Automation • Duration: 1 Day (8 hrs) • Code: MMS-235

COURSE MODULES & TOPICS

Objectives

- State the purpose of gears
- Define the terminology associated with gears
- Identify the following types of gear arrangements: spur gear, helical gear, herringbone gear, bevel gear, worm gear, and planetary gear
- Demonstrate how to measure backlash in a gearing arrangement

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

- Shaft and Coupling course (MMS-245)

Course Agenda

- Listing Gear Functions
- Defining Gear Terminology
- Describing Gear Arrangements
- Listing Gear Arrangement Advantages and Disadvantages
- Explaining Shaft Orientation and Power Transfer
- Describing Gear Backlash
- Performing Lubrication of Gears
- Demonstrating Inspection Methods
- Calculating Gear Ratios
- Performing Gear Setup and Measurement
- Lab Exercises
- Review
- Written Exam