

Bearing Fundamentals

OEM: Rockwell Automation • Duration: 2 Days (16 hrs) • Code: MMS-115

COURSE MODULES & TOPICS

Objectives

- Identify and explain the purpose for bearings
- Discuss the basic terms associated with bearing design and construction
- Identify and recognize the major components of various bearings
- Demonstrate proper bearing maintenance and lubrication techniques
- Demonstrate the proper installation and removal of bearings
- Examine a bearing and analyze to determine cause of failure

Who Should Attend

- Understanding of mechanical theory and mechanical systems

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

- Centrifugal Pumps (MMS-200)

Course Agenda

Day 1

- Force, stress, and friction
- Terminology and bearing design
- Bearing materials
- Friction and anti-friction bearings
- Lubrication methods
- Clearance checks
- Bearing mounting
- Preload considerations

Day 2

- Setting tapered roller bearings
- Fixed and float bearings
- Roller bearing removal
- Wear analysis
- Failure analysis
- Failure reduction
- Lab exercises
- Review
- Written exam

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