

# Chapter 2

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## ***Bearings***

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### **Chapter Objectives**

When you have finished Chapter 2, “Bearings,” you should be able to do the following:

1. Describe the history and background for bearings.
2. Explain the difference between plain bearings and rolling element bearings.
3. Explain the features of plain bearings.
4. Differentiate lubricated and self-lubricated plain bearings.
5. Describe applications where plain bearings would be considered.
6. Describe the various modes of lubrication for plain bearings.
7. Describe the features of rolling element bearings.
8. Describe the different types of rolling element bearings.
9. Differentiate ball and roller bearing applications.
10. Explain the purpose and effects related to the lubrication aspects of bearings.
11. Describe the types and features of mounted bearings.
12. Identify industry associations that recommend the various standards related to ball and roller bearing usage.