GEAR FUNDAMENTALS

eLearning courses designed to increase productivity and profits

Learning made Simple, Visual, and Interactive

The Gear Fundamentals course is a visual course designed for any learner who must become familiar with the various gear types and how they are utilized to form different gearboxes. In this course, learners engage with animations and visuals that provide basic understanding of what are gears, as well as how gears work with the aid of various engineering concepts and gearing principles. This course includes gear and gearbox terminology and applications, along with important calculations to further express the importance of the topic and its basic principles.

Credit Hours **4**

Learning Objectives

- Recognize what gears are, and why they are important, especially for both power transmission and motion control.
- Describe the different basic gear forms and arrangements and understand the advantages and disadvantages of each.
- Review examples of different types of prime movers.
- Identify alternatives to gears for power transmission and motion control applications.
- Understand the relationship between and calculate for work, power, and torque.
- Recognize the need for smooth (conjugate) motion in gear meshing and be aware of the Law of Gearing.

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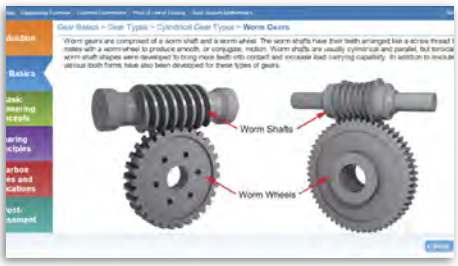

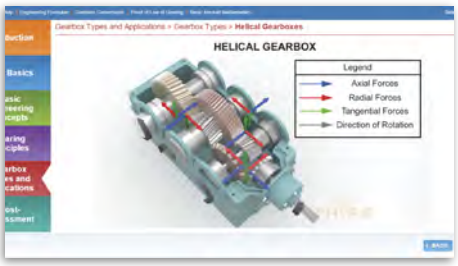

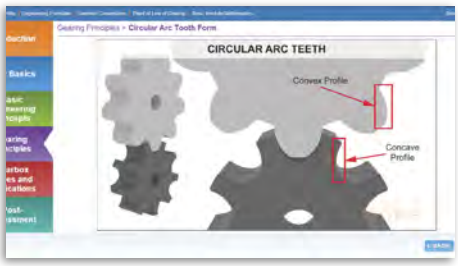

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