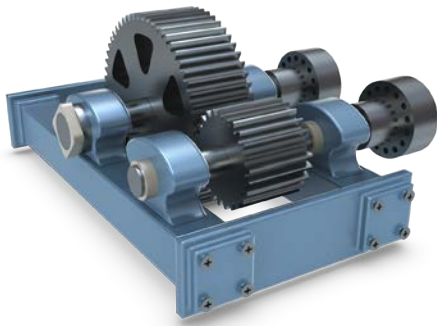# SPUR AND HELICAL GEAR DESIGN FUNDAMENTALS

eLearning courses designed to increase productivity and profits

Learning made Simple, Visual, and Interactive

Gear design simplified! The THORS course, Spur and Helical Gear Design Fundamentals provides strategies for designing gears that meet given application requirements. This course, complemented with real-life examples, delves into the principles of selection and optimization of primary and secondary design variables.

Credit Hours **3**

Prerequisite Knowledge:
Learners taking this course must be familiar with gear terminology and working principles of gears and gearboxes.

Learning Objectives

- To understand the application and gear design input parameters.
- To estimate the gear design basic variables based on design inputs.
- To design a gear pair that satisfies the specifications of the intended application.
- To design a gear pair that meets or exceeds target design life and safety factor ratings.
- To improve safety factor ratings through optimization of gear geometry, material selection, and heat treatment.

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