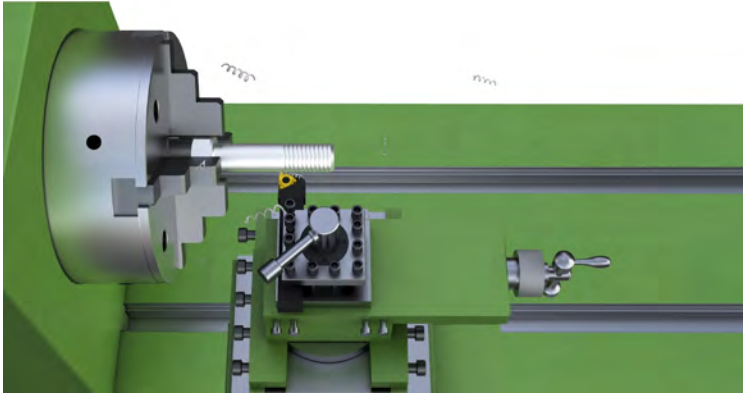


FASTENERS: THREADED FASTENER TERMINOLOGY AND COMPONENTS

eLearning courses designed to increase productivity and profits



Learning made Simple, Visual, and Interactive

Fasteners: Threaded Fastener Terminology and Components introduces learners to the basics of threaded fasteners as well as the common types of common threaded fasteners and any related components.

Credit Hours **2.5**

Learning Objectives

- 💡 Recognize the basic parts of threaded fasteners.
- 💡 Understand the basic systems for classifying threaded fasteners.
- 💡 Identify the mechanical properties that are most relevant to threaded fasteners.
- 💡 Differentiate between the unique traits of the most common types of bolts.
- 💡 Differentiate between the unique traits of the most common types of screws.
- 💡 Recognize the prominent nuts and washers and the basic ways in which each are applied.

Table of Contents

I. Threaded Fastener Basics

- **How Threaded Fasteners Function**
 - o Threads
 - o Thread Mating
 - o Bolt Tension
 - o Tension Loading
- **Parts of Threaded Fasteners**
 - o Fastener Terms and Lengths
 - o Parts of Threads
 - o Methods of Thread Creation
- **Nominal Size**
 - o Unified Thread Standard System
 - o Metric System

II. Threaded Fastener Types

- **Bolts vs. Screws**
- **Bolt Types**
 - o Hex and Bent Anchor Bolts
 - o Carriage, Elevator, Eye, and Stud Bolts
- **Screw Types**
 - o Concrete, HHCS, Lag, and Machine Screws
 - o Set, Sheet Metal, Socket, Tek, and Wood Screws

III. Threaded Fastener Components

- **Nut Types**
 - o Acorn, Cap, Castle, Coupling, Flange, Hex, Heavy Hex, Jam, Keps Nuts
 - o Locking, Slotted, Square, T, Thick, and Wing Nuts
- **Washer Types**
 - o Beveled, Clipped, Dock, External Tooth, Fender, Finishing, Flat, and Internal Washers

