

INDUSTRIAL BAND SAW BLADE OPERATION

eLearning courses designed to increase productivity and profits



Learning made Simple, Visual, and Interactive

The THORS *Industrial Band Saw Blade Operation* course introduces the learner to the band saw blade terminology, including the blade construction and blade types. This course also covers the uncoiling and loading processes of a band saw blade and the blade cutting parameters. Presented in THORS' highly visual and interactive learning format, this course will equip the learner with a foundational knowledge of industrial band saw blade operation.

Credit Hours **1.5**

Learning Objectives

- 💡 Define band saw blade terminology.
- 💡 Describe various band saw blade types.
- 💡 Understand the importance of proper machine setup for effective blade operation.
- 💡 Understand the processes of uncoiling and loading the band saw blades.
- 💡 Understand the process of blade break-in.

Table of Contents

I. Blade Terminology

- Blade Construction
 - ▣ Blade Anatomy
 - ▣ Blade Nomenclature
 - ▣ Tooth Form
 - ▣ Tooth Set
- Blade Types
 - ▣ Carbon Blades
 - ▣ Bi-Metal Blades
 - ▣ Carbide Tipped Blades
 - ▣ Carbide Grit Blades

II. Blade Operation

- Machine Setup
 - ▣ Guides
 - Block Guides
 - Roller Guides
 - ▣ Chip Brush
 - ▣ Fluid Delivery
- Blade Setup
 - ▣ Blade Handling
 - Uncoiling the Blade
 - Loading the Blade
 - ▣ Blade Tension

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II. Blade Operation (continued)

- Machining Process
 - ▣ Cutting Parameters
 - Feed Rate
 - Speed Rate
 - ▣ Blade Break-In

