

# Roll Forming

CERTIFICATE COURSE

**FMA**

## Certificate Course Outline

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This specialized two-day seminar will teach you the history, terminology, and proper processes involved with roll forming. You'll learn the definition of roll forming and understand the basic principles every operator needs to be effective. A combination of interactive classroom learning, and easy-to-understand exercises will help you learn or update skills needed to produce quality products while reducing errors and down time.

### Learning Objectives

#### Roll Forming Technology

- Understand all standard roll forming definitions, basic roll forming history, and essential terminology.

#### Roll Forming Machines

- Identify roll forming machine sizes, including rafted, standard, and duplex configurations.

#### Understanding Measuring Skills

- Identify how to utilize measuring tools such as calipers, micrometers, protractors, tape measures, height gages, and radius gauges.

#### Die Skills

- Master die skills, including die anatomy, clearances, shut height, die theory, safety practices, and lubrication techniques.

#### Presses

- Identify the different types of presses, including mechanical, hydraulic, and air presses.

#### Blueprint Reading

- Gain proficiency in blueprint reading, covering part prints, basic GD&T, roll prints, roll flowers, die prints, and English-to-metric conversions.

#### Roll Form Tooling Setup & Troubleshooting

- Develop skills in roll form tooling setup and troubleshooting, including the 5 WHY process, proper documentation, managing parts and tooling, machine setup/tear out, set up sheets, and addressing main quality issues such as bow, sweep, twist, flare, and surface defects.

#### Straightening and Sweeping

- Understand straightening and sweeping techniques using single block, multiple blocks, roller, and turks head setups.