## **CATHODIC ELECTRODEPOSITION (CED) PAINTING BASICS**

## eLearning courses designed to increase productivity and profits



# Learning Made Simple, Visual, and Interactive

The THORS *Cathodic Electrodeposition (CED) Painting Basics* course is relevant for learners who are new to the industry, as well as experienced learners who require a deeper knowledge of the systems and equipment involved in the painting processes. The CED painting systems function in a coordinated way ensuring optimal productivity. This introductory course offers an interactive learning experience that allows learners to gain an in-depth understanding of the CED process including the pretreatment, painting, and support processes.

Credit Hours 2

### Learning Objectives

- Ø Identify the different systems involved in CED painting.
- Ø Recognize the equipment used in CED painting.
- Ø Identify the various CED support equipment used.
- Ø Recall the major processes carried out in the CED plant.
- Ø Gain a broader understanding of the painting process steps.
- Output Description (UF) Understand the ultrafiltration (UF) process steps for paint and permeate recovery.

### **Table of Contents**

#### I. CED Painting Systems and Equipment

- CED Painting Systems
  - Part Transport System
    - Transporter
    - Monorail
  - Power Supply System
  - Fresh Paint Supply System
  - Bath Circulation System
  - Ultrafiltration (UF) System
  - Paint Temperature Control System
  - Control System
  - Anolyte Circulation System

- I. CED Painting Systems and Equipment II. (Continued)
  - CED Painting Equipment
    - Bus Bar
    - CED Tank
    - Baking Oven
  - Flash-Off Equipment
  - CED Support Equipment Demineralized (DM) Water Plant
    - Chiller Unit
    - Thermic Fluid Heater

#### **II. CED Process**

- Pretreatment Process
  - Part Cleaning
    - Methods
  - Systematic Procedure
  - Surface Activation
  - Phosphating
- Painting Process
- - Flash-Off Process
  - Curing Process







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