

- I. Introduction and Learning Objectives**
- II. Structural Steel: Reliable, Resilient, and Recyclable**
  - a. Conquering Corrosion
  - b. Zinc: The Healthy Metal
- III. Hot-Dip Galvanizing & Other Zinc Coatings**
  - a. Differentiating Zinc Coatings
    - i. Structural
    - ii. Sheet/Small Parts
    - iii. Thickness & Density
  - b. Hot-Dip Galvanizing Process
- IV. Why Specifiers Use Hot-Dip Galvanizing**
  - a. Long Lasting Corrosion Protection
  - b. Durability
  - c. Longevity
  - d. Availability & Versatility
  - e. Aesthetics
- V. Understanding Hot- Dip Galvanized Steel's Sustainability**
  - a. Environmental Advantages
  - b. Economic Advantages
- I. HDG Specifications**
  - a. ASTM & Other Standards
  - b. Pre- and Post-Galv Supporting Specs
- II. Design & Fabrication**
  - a. Steel Chemistry & Surface Condition
  - b. Size & Shape
  - c. Process Temperature/Heat
  - d. Venting & Drainage
  - e. Welding
  - f. Threaded Parts/Connections
  - g. Post Galvanizing Design/Use
  - h. Architecturally Exposed Structural Steel (AESS)
- III. Inspection, Touch-Up & Repair, and Storage**
  - a. Coating Thickness, Finish, & Appearance
  - b. Appearance & Weathering
  - c. Touch-Up & Repair
  - d. Proper Storage & Handling
- IV. Duplex Systems**
  - a. Why Duplex
  - b. Proper Preparation
  - c. Roles & Responsibilities
- V. Summary**