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

VI. Design & Specification

VII. Summary
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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

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