

- I. Introduction and Learning Objectives**
- II. Current Bridge Market**
- III. Hot-Dip Galvanizing Process**
- IV. Benefits of HDG Steel Bridges**
  - a. Corrosion Protection
  - b. Durability
  - c. Longevity
  - d. Availability & Versatility
  - e. Aesthetics & Duplex Systems
  - f. Environmental Advantages
  - g. Economic Advantages
- V. HDG Bridge Design**
  - a. ASTM Specifications
  - b. Size Considerations
  - c. Steel Selection
  - d. Bridge Girder Design
- VI. Minimizing Warpage & Distortion**
- VII. Connecting Concerns**
  - a. Bearing & Slip Critical Tensioning
  - b. Overtapping Guidelines
  - c. Embrittlement
- VIII. Inspection & Repair**
- IX. Summary**