

**PD359**  
**Practical Welding Technology**

**Day One**

- Chapter 1: Introduction
- Chapter 2: Terms and Definitions
- Chapter 3: Welding, Brazing and NDT Symbols

**Day Two**

- Chapter 4: Welding Metallurgy
  - Chapter 4a: Practical Welding Problems
    - Dissimilar welds
    - Carbon steel
- Chapter 5: Welding Processes – Part 1

**Day Three**

- Chapter 5: Welding Processes – Part 2
- Chapter 6: Common Construction Codes – scope and applications
  - AWS
  - ASME
  - API
- Chapter 7: Procedure and Performance Qualification
  - Welding Procedures
    - Prequalified WPS
    - Standard WPS
    - Qualified by testing
    - Mock-up
  - Performance qualification
    - Qualified by testing

**Day Four**

- Chapter 8: Weld Discontinuities and Defects
- Chapter 9: Designing Welds
  - Complete joint penetration groove welds
  - Partial joint penetration groove welds
  - Fillet welds
  - Fatigue



- Chapter 10: Nondestructive Testing
  - Qualification and certification of NDT personnel
  - VT
  - PT
  - MT
  - UT
  - RT
- Chapter 11: Developing a cohesive welding program