

# Certified Welding Inspector (CWI) Prep Course

February 13–17, 2023

## TAKE YOUR FIRST STEPS TOWARDS A NEW CAREER AS A CWI

Welding inspection involves much more than just looking at welds. This course will provide the essential knowledge and practical skills needed to sit for examinations as well as navigate code books and use inspection tools to assess weld quality. With this information, the inspector will also gain confidence and learn the skills needed to work in various aspects of the weld inspection industry.

In this course, you will learn to:

- Act professionally carrying out the role of an inspector in all aspects of the job; demonstrating an ethical and honest behavior; and providing an accurate account of the disposition of welded product.
- Interpret various code criteria pertaining to the assessment of weld quality, the qualification of welders and procedures as well as preparing required documentation of work in the structural, pipeline and pressure vessel industries.
- Apply common techniques of visual inspection on a variety weld types and applications using basic tools of the trade like fillet weld, undercut and reinforcement gauges supplemented by destructive and nondestructive testing.

### CWI INSTRUCTOR: RICHARD DEPUE

Richard DePue has over 35 years of experience as a senior inspector in the nuclear, petroleum, aerospace, and construction industries with many years of working in North America and internationally. Rich has served on many international welding committees and received four quality achievement awards for work in the nuclear industry.

He holds a Bachelor of Science in Technical Education, a Master of Science in Professional Education and holds many industry certifications in welding, inspection and NDE.



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**EWI**



### WHERE:

**EWI Buffalo Office**  
683 Northland Ave  
Door E  
Buffalo, NY, 14211

### PRICE:

\$2,499.00 USD

### INCLUDED IN ENROLMENT:

- API 1104 Code Book (printed)
- Access to online learning lessons for 90 days
- Inspection Toolkit
  - Bridge cam, fillet, high-low, and undercut (V-WAC) gauges
  - Flashlight
  - Magnifying glass

**Sign up now, space is limited!**

Scan the code to sign up.



# Certified Welding Inspector (CWI) Prep Course Details



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## AGENDA *(subject to change)*

**Monday, February 13** | 8:00 a.m. to 5:00 p.m.  
Welding Fundamentals Part A1

**Tuesday, February 14** | 8:00 a.m. to 5:00 p.m.  
Welding Fundamentals Part A2

**Wednesday, February 15** | 8:00 a.m. to 5:00 p.m.  
API 1104 Code Study

**Thursday, February 16** | 8:00 a.m. to 5:00 p.m.  
Practical Welding Inspection, Part B1

**Friday, February 17** | 8:00 a.m. to 5:00 p.m.  
Practical Welding Inspection Part B2

## A NOTE ABOUT AWS EXAMS

AWS exams are not included in the prep course and are the responsibility of the participant to schedule. Visit [www.aws.org](http://www.aws.org) or scan the code at right to apply for AWS CWI/CWE exams.



## SUMMARY

### PART A – FUNDAMENTALS

1. Welding Inspection and Visual Inspection
2. Safe Practices for Welding Inspectors
3. Metal Joining and Cutting Processes
4. Weld Joint Geometry and Welding Symbols
5. Documents Governing Welding Inspection, Certification and Qualification
6. Metal Properties and Destructive Testing
7. Welding Metallurgy for the Welding Inspector
8. Weld and Base Metal Discontinuities
9. NDE Methods and Symbols

### PART B – PRACTICAL

1. General Requirements
2. Workmanship Requirements and Visual Inspection Acceptance Criteria – Structural Steel
3. Workmanship Requirements and Visual Inspection Acceptance Criteria – Pipeline
4. Workmanship Requirements and Visual Inspection Acceptance Criteria – Pressure Piping
5. Procedure Qualification Requirements
6. Performance Qualification Requirements
7. Annexes I through X (A-, F-, and M-numbers, Bend Specimen Preparation Requirements, Pipe Schedule Table, Blank WPS, Blank PQR, and Blank WQTR)

### PART C – CODE ENDORSEMENT API 1104

1. Scope
2. Normative References
3. Terms, Definitions, Acronyms, and Abbreviations
4. Specifications
5. Qualification of Welding Procedures with Filler Metal Additions
6. Qualification of Welders
7. Design and Preparation of a Joint for Production Welding
8. Inspection and Testing of Production Welds
9. Acceptance Standards for NDT
10. Repair and Removal of Weld Defects
11. Procedures for NDT
12. Mechanized Welding with Filler Metal Additions
13. Automatic Welding Without Filler Metal Additions
14. Appendix A – Alternative Inspection Methods
15. Appendix B – In-Service Welding

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