

## STRUCTURAL STEEL BOLTING INSPECTOR TRAINING SYLLABUS

**Class Dates:** Saturday's, 01/08/2022 – 01/29/2022

**Class Time:** 8:00 AM to 1:00 PM

**Location & Address:** Online through Zoom

### COURSE DESCRIPTION

This four-day seminar will cover Special Inspection requirements for Structural Steel Bolting Inspection (ICC S1 certification) and Structural Plan Reading associated with Structural Bolting. All High Strength Bolting is required to have Special Inspection per International Building Code. The Washington Association of Building Officials (WABO) offers a Structural Steel Bolting (SSB) Special Inspection certification. This course and instructor offered by the NWCEL has been approved by ICC and WABO to meet this requirement.

### ABOUT THE INSTRUCTOR

Matthew Hancock has 27 years of experience working in the in the welding industry. His past positions include ASME/WABO/ United States Coast Guard certified welder, WABO approved welder examiner, and AWS certified welding educator with seven years teaching experience in a local technical college. He is currently an AWS certified welding inspector (CWI), a level II nondestructive testing technician for magnetic particle, liquid dye penetrant, and ultrasonic testing, and is certified by WABO as a special inspector of structural steel and bolting, structural welding, and proprietary anchors. Matthew's time in the industry and extensive experience and knowledge are well respected in the field.

### LEARNING OBJECTIVES

The successful student will:

1. Understand IBC requirements for Steel Special Inspection
2. Develop a working knowledge of AISC & RCSC Specifications
3. Become proficient in the testing, installation and inspection of High Strength Bolts
4. Learn to work with Construction Drawings related to Structural Steel Bolting inspection
5. Gain and Retain the knowledge required to pass ICC and WABO examinations for Structural Steel Bolting certifications

### COURSE TOPICS

1. IBC 2015 chapter 17 requirements for Special Inspection
2. IBC 2015 chapter 22 requirements for Steel Special Inspection
  - a. Study Material Quiz
3. AISC Specification for Structural Steel Buildings 14<sup>th</sup> Edition
  - a. AISC 341, 360, & 303 2010 Specifications
  - b. RCSC 2009 Research Council on Structural Connections
  - c. Study Material Quiz
4. ASTMs for High Strength Fasteners, A325/F1852, A490/F2280
5. Plan Reading, Introduction to Structural Drawings
  - a. Hands-On with Structural Drawings
  - b. Structural Drawings Quiz

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### COURSE SCHEDULE

- **07:00 to 9:30:** Roll Call Agenda, Handouts, Introduction to IBC, AISC and RCSC Codes and Specifications, IBC 2015 Chapter 17 and Chapter 22 review and PowerPoint. This is a multi-day PowerPoint, covering the above Codes & Specifications.
- **9:30 to 12:00:** Continue PowerPoint and Study Material Quiz

### COURSE OUTLINE

- DAY 1:**
- A. Introductions and Handouts
  - B. Introduction to Structural Steel Construction
  - C. IBC Chapter 17 Presentation
  - D. IBC Chapter 22 Presentation
  - E. Take Home Quiz
- Day 2**
- A. Roll Call
  - B. Review Quiz
  - C. AISC 360 Chapter N
  - D. AISC / RCSC Presentation Part 1
- DAY 3**
- A. Roll Call
  - B. AISC / RCSC Presentation Part 2
  - C. AISC / RCSC Quiz
  - D. Structural Drawings / Plan Reading
- DAY 4**
- A. Roll Call
  - B. Review Quiz
  - C. Structural Drawings / Plan Reading
  - D. Final Exam
  - E. Review Final Exam

### MATERIAL

Students are expected to come to class with the following material ready:

AISC Steel Construction Manual 14th. Edition -or- (AISC 303, 314, 303 and RCSC 2009)

IBC 2015 -or- Chapter 17 and 22, and Section 110

SSTC Structural Steel Inspector's Workbook (<https://shop.iccsafe.org/structural-steel-inspector-s-workbook-2014-edition-1.html>)

### COST

Determined by enrollment. Invoice will be emailed no later than one week after course has ended.

### REGISTRATION

Please fill out the attached registration application and email to Thanh Kieu at [thanh@nwcel.org](mailto:thanh@nwcel.org)

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Name: \_\_\_\_\_

Company: \_\_\_\_\_

Phone Number: \_\_\_\_\_

Email: \_\_\_\_\_

### BILLING CONTACT INFORMATION

CHECK IF SAME AS ABOVE

Name: \_\_\_\_\_

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### STUDENT REGISTRATION

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