

Residential Electrical Inspector Cross-training Course Syllabus – Fall 2025

Class days – Mondays and Wednesdays, 7:30-9:30 a.m. Progress exam days – Online unless otherwise communicated 8:00-noon

Please note: This syllabus is a <u>quideline</u>. As the course proceeds, some lessons may take longer to complete which will bump all future lessons and/or progress exams forward and dates will no longer be accurate. Course could be extended an additional two-weeks. However, the lessons and associated homework will remain the same even if the dates change.

Week 1 (December 1 & 3)

December 1: First day of course, attendance via webcam & mic required, 8-12 p.m.

- Welcome, student roles and responsibilities, review of course details
- Ethics presentation
- Lesson 1: Basics

Week 2 (December 8 & 10)

- Lesson 2: Code
- Homework: review Art. 200, 210 and 230

Week 3 (December 15 & 17)

- Lesson 3: Layout and terminology
- Homework: study definitions

Week 4 (December 22)

• Lesson 3: continued Homework: study definitions

Winter Break: No class between 12/22/23 – 01/01/24

2025

Week 5 (January 5 & 7)

- Lesson 4: Grounding and bonding basics
- Homework: read
 Art. 250.52 & 250.66

Week 6 (January 12 & 14)

- Lesson 5: Bonding basics
- Review for exam

January 19: No class

Week 7 (January 21)

- Lesson 5: (Continued)
- Lesson 6: Services

Week 8 (January 26 & 28)

- Lesson 6: (Continued)
- Review lessons 1-6

Week 9 (February 2 & 4)

Review lessons 1-6

February 4: attendance via webcam & mic required, 8-12 p.m. (exam may be bumped forward)

- Progress exam #1: 52
 questions based on lessons
 1 thru 6
- Review progress exam #1

Week 9 (February 9 & 11)

- Lesson 7:Feeders and sub-panels
- Homework: study Art. 210.11 thru 210.70
- Lesson 8:Parallel conductors
- Homework: study Art, 215 & 240

February 16: No class

Week 11 (February 18)

- Lesson 9:Temporay services
- Homework: study Ugly's Lesson 10: Ohms law
- Lesson 10: OnmsHomework: study
- T-310.15B16

Week 12 (February 23 & 25) Lesson 11: Formulas

• Lesson 12: Taps and table 210.24

Week 13 (March 2 & 4)

- Lesson 12: Taps and table 210.24
- Review lessons 7-12

Week 14 (March 9 & 11)

• Review lessons 7-12

March 11: attendance via webcam & mic required, 8-12 p.m. (exam may be bumped forward)

Progress exam #2: 52
 questions based on lessons
 7-12

Week 15 (March 16 & 18)

- Review progress exam #2
- Lesson 13: Required circuits
- Study 210.8 & 210.12

Spring Break: No class between 3/23/26 – 3/27/26

Week 16 (March 30 & April 1)

- Lesson 14: AFCI/GFCI requirements
- Study 210.52, 422 and 424
- Lesson 15: Living area layout

Week 17 (April 6 & 8)

- Lesson 15: cont.
- Lesson 16: Kitchen layout
- Study T-220.55

Week 18 (April 13 & 15)

 Lesson 17:Overcurrent protection, Table 220.55 Study 314.16

Updated: 10/01/25



Lesson 18: Calc's and box fil

Week 19 (April 20 & 22)

- Lesson 18: (Continued)
- Review Lessons 13-18

Week 20 (April 27 & 29)

• Review Lessons 13-18

April 29: attendance via webcam & mic required, 8-12 p.m. (exam may be bumped forward)

- Progress exam #3: 52 questions based on lessons 13-18
- Review progress exam #3
- Lesson 19: Rough-in inspection

Week 21 (May 4 & 6)

- Lesson 19: (Continued)
- Lesson 20: Cooking equipment calc's
- Study lessons

Week 22 (May 11 & 13)

- Lesson 21: HVAC
- Study lessons

Week 23 (May 18 & 20)

- Lesson 22: Generators, transfer switches, and swimming pools
- Study lessons
- Exam Review

May 25: No class

Week 24 (May 27)

Lesson 23a: MHI-electrical
 Exam review: if time allows

Week 25 (June 1 & 3)

Lesson 23b: MHI-plumbingLesson 23c: MHI-structural

Week 25 (June 8 & 10)

Exam Review

June 10: attendance via webcam & mic required, 8-12 p.m. (exam may be bumped forward)

> Progress exam #4: 52 questions based on lessons 19-22

Week 26 (June 15 & 17)

- Review progress exam
- Lesson 24: Solar panels
- Lesson 25: Virtual Inspection
- Course review

Possible extension of course of up to two weeks – TBD by May.

Updated: 10/1/25