

Residential Electrical Inspector Cross-training Course Syllabus – Fall 2023

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>guideline</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 4 & 6)

December 4: 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 11 & 13)

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

Week 3 (December 18 & 20)

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

Winter Break: No class between 12/25/23 – 01/01/24

<u>2024</u>

Week 4 (January 3)

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

Week 5 (January 8 & 10)

- Lesson 5: Bonding basics
- Review for exam

January 15: No class

Week 6 (January 17)

Lesson 5: (Continued)Lesson 6: Services

Week 7 (January 22 & 24)

• Lesson 6: (Continued)

Week 8 (January 29 & 31)

• Review lessons 1-6

January 29: 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 5 & 7)

• Lesson 7:Feeders and sub-panels

- Homework: study Art. 210.11 thru 210.70
- Lesson 8:Parallel conductors
- Homework: study Art, 215 & 240

Week 10 (February 12 & 14)

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

February 19: No class

Week 11 (February 21)

Lesson 11: Formulas

• Lesson 12: Taps and table 210.24

Week 12 (February 26 & 28)

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

Week 13 (March 4 & 6)

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

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

Week 14 (March 11 & 13)

- Lesson 13: Required circuits
- Study 210.8 & 210.12
- Lesson 14: AFCI/GFCI requirements
- Study 210.52, 422 and 424

Week 15 (March 18 & 20)

- Lesson 15: Living area layout
- Study past lessons

Spring Break: No class between 3/25/23 – 3/29/23

Week 16 (April 1 & 3)

- Lesson 16: Kitchen layout
- Study T-220.55

Week 17 (April 8 & 10)

 Lesson 17:Overcurrent protection, Table 220.55 Study 314.16 • Lesson 18: Calc's and box fil

Week 18 (April 15 & 17)

Lesson 18: (Continued)

Week 19 (April 22 & 24)

April 22: 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 20 (April 29 & May 1)

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

Week 21 (May 6 & 8)

- Lesson 21: HVAC
- Study lessons

Week 22 (May 13 & 15)

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

Week 23 (May <mark>20</mark> & 22)

Exam Review

May 20: attendance via webcam & mic required, 8-12 p.m. (exam may be bumped forward)

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

May 27: No class

Week 24 (May 29)

April 11: projected last day of course

- Lesson 23: Minor labels
- Lesson 24: Solar panels
- Lesson 25: Virtual Inspection
- Course review

Possible extension of course of up to two weeks – TBD by mid-April.

Updated: 09/13/23