



IRC- Residential Electrical Inspector

Course Outline

Course Description: This 13-module course, followed by a two-hour practice examination, is based on Chapters 34 through 42 of the 2015 International Residential Code (IRC), including 2018 IRC Updates. It teaches the practical application of those chapters of the IRC. Each module consists of an integrated video presentation, including presentation slides, explanation, examples, and review quizzes. Modules are designed to be 30-60 min. in length.

Course Objectives: This course is designed to prepare you for the International Code Council's (ICC) Residential Electrical Inspector exam, utilizing the 2015 IRC. This course also serves as a review for those already familiar with the IRC, and may serve as an update course for those unfamiliar with the 2015 edition of the code.

Texts and Readings: The 2015 International Residential Code is the textbooks for this course. An optional secondary reference for this exam is the 2014 National Electrical Code. It is highly recommended that you purchase a paper-back copy of these codes, which are available online at www.iccsafe.org. A physical copy can be utilized during the actual exams, which are open book, and serves as a valuable reference for in the field inspections.

Course Outline of Topics:

| Module: | Topics: | Readings: | Quiz: | Duration: |
|---------|---------------------------------|-------------------------|-------|-----------------|
| 1 | Electrical Basics | Chapter 34 | Y | 44 min. |
| 2 | Definitions | Chapter 35 | Y | 44 min. |
| 3 | Services | E3601-E3606 | Y | 29 min. |
| 4 | Services and Electrodes | E3607-E3611 | Y | 33 min. |
| 5 | Branch Circuits and Feeders | E3701-E3704 | Y | 23 min. |
| 6 | Branch Circuits and Feeders | E3705-E3706 | Y | 30 min. |
| 7 | Wiring Methods | Chapter 38 | Y | 22 min. |
| 8 | Power and Lighting Distribution | E3901-E3902 | Y | 32 min. |
| 9 | Power and Lighting Distribution | E3902-E3905 | Y | 47 min. |
| 10 | Power and Lighting Distribution | E3906-E3909 | Y | 38 min. |
| 11 | Devices and Luminaires | Chapter 40 | Y | 26 min. |
| 12 | Appliance Installation | Chapter 41 & 42 | Y | 38 min. |
| 13 | 2018 IRC Electrical Updates | 2018 IRC Chapters 34-42 | N | 4 min. |
| | 8 Quizzes | | | |
| | 68 Questions, 2 min. each | 2015 IRC Electrical | | 136 min. |
| | Practice Exam | 2015 IRC Electrical | | 120 min. |
| | Total Course Hours | | | 11 hours |



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Quizzes and Exams: Each module associated with this course will be followed by an assessment quiz of varying length. A passing score of 75% is required in order to advance to the next module. At the conclusion of the course is a timed practice exam. The exam is similar in length, content, and duration as the actual ICC exams. A passing score of 75% is required in order to obtain a certificate of completion from WC3 for this course. Topics in both the exam and the quizzes may or may not have been covered in the video modules. A thorough reading of the code may be necessary in order to progress through this course.

Expectation of Participants: This course requires that you to watch each training video, complete each quiz, as well as the exam. You are expected to read portions of the applicable code, and become familiar with its layout and organization. We recommend 2 hrs. of personal study, for each module. Marking, tabbing, and highlighting in the code book is highly recommended. We have layout out a plan and method to help you learn the material, but it's up to you to put in the work necessary for you to mater the material. You can progress through this course at your own pace; however, you only have access for 120 days.

Continuing Education Credits: Completion of this course results in **1.1 CEU's** being provided by ICC, as West Coast Code Consultants is a Preferred Provider.



Instructor:



Doug Smith, MCP, CBO serves as both a plans examiner and building inspector for WC3. He has been an inspector since 2005 and has more than 20 years of experience in the building safety and construction industries. He has obtained over 18 ICC certifications including Certified Master Code Professional. He specializes in the requirements of the electrical code and is especially knowledgeable on the topic of solar photovoltaic systems.