



# Commercial Electrical Inspector Part 2

## Course Outline

**Course Description:** This **9-module** course, followed by a **60 question (2 hour) practice examination**, is based on the *2017 National Electrical Code (NEC)*. It teaches the practical application of the NEC. Each module consists of an integrated video presentation, including presentation slides, explanation, examples, and review quizzes. Modules are designed to be approximately 40 – 60 min. in length.

*Note: This is Part 2 of a two-part series.*

**Course Objectives:** This course is designed to prepare you for the *International Code Council's (ICC)* Commercial Electrical Inspector exam, utilizing the *2017 NEC*. This course also serves as a review for those already familiar with the NEC and may serve as an update course for those unfamiliar with the latest edition of the code. *Note: This is Part 2 of a two-part series*

**Texts and Readings:** The *2017 National Electrical Code* is the textbook for this course. It is highly recommended that you purchase a paper-back copy of this code, which is available online at [www.iccsafe.org](http://www.iccsafe.org) or [www.nfpa.org](http://www.nfpa.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:**

<b>Module:</b>	<b>Topics:</b>	<b>Readings:</b>	<b>Quiz:</b>	<b>Duration:</b>
13-1	Outlet, Devices, Pull and Junction Boxes, Conduit Bodies, Fittings, Handhole Enclosures	Article 314	Y	40 min.
13-2	Cable/Conduit Installations	Articles 320, 330, 334, 338, and 340	Y	40 min.
13-3	Common Conduit Types	Articles 342, 344, 348, 350, 352, and 358	Y	32 min.
14-1	Flexible Cables and Cords, Switches	Articles 400 and 404	Y	40 min.
14-2	Receptacles, Cord Connectors, Attachment Plugs, Switchboards, Switchgear and Panelboards	Articles 406 and 408	Y	44 min.
14-3	Luminaires and Appliances	Articles 410 and 422	Y	46 min.
15	Motors	Article 430	Y	66 min.
16	Generators and Transformers	Articles 445 and 450	Y	45 min.
17-1	Hazardous Locations	Article 500	Y	42 min.
17-2	Class I & II Locations	Articles 501 and 502	Y	60 min.
17-3	Commercial Garages for Repair/Storage and Fuel Dispensing Facilities	Articles 511 and 514	Y	38 min.
18-1	Health Care Facilities	Article 517	Y	28 min.
18-2	Health Care Facilities	Article 517	Y	43 min.
18-3	Health Care Facilities	Article 517	Y	44 min.



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19-1	Swimming Pools, Fountains, and Spas	Article 680	Y	40 min.
19-2	Swimming Pools, Fountains, and Spas	Article 680	Y	33 min.
20-1	Emergency Systems	Article 700	Y	40 min.
20-2	Legally Required and Optional Standby Systems	Articles 701 and 702	Y	27 min.
21	Conduit Fill	NEC Chapter 9 and Annex C	Y	25 min.
	19 Quizzes 120 Questions, 2 min. each	2017 NEC		240 min.
	Practice Exam	2017 NEC		120 min.
	<b>Total Course Hours</b>			<b>19 hours</b>

**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 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 **1.90 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 WC<sup>3</sup>. 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.

