



## Department Approved Course Requirements

<b>Course Title:</b>	8-Hour Master & Special Electrician Renewal
<b>Course Required for:</b>	<input checked="" type="checkbox"/> Licensee Continuing Education
<b>Purpose:</b>	This course is a requirement for all Master and Special Electricians to maintain his/her license to work in New York City.
<b>Duration:</b>	8 hours per year; 24 hours of instructional time over a three year Electrical Code cycle, excluding breaks & meals
<b>Class Size:</b>	1 – 50 Trainees
<b>NYC Requirement:</b>	To renew a NYC Master or Special Electrical License or maintain current under a deactivated license, the applicant must complete this course and submit a certificate of completion to the Licensing Unit as mandated by NYC Administrative Code 27-3015, 1 RCNY §104-06 Continuing Education & §105-03 Department Approved Courses.
<b>Facility Requirements:</b>	The Training Facility used by the Course Provider must: <ul style="list-style-type: none"><li>• Have sufficient room to accommodate all expected students.</li><li>• Make provisions for the presentation of training material in all media types (computer, projector, video/DVD player, etc.); and</li><li>• Comply with all applicable laws, rules &amp; regulations relating to occupancy, zoning, egress, fire detection, fire suppression, light, ventilation, cleanliness, sanitary facilities, emergency notification &amp; evacuation procedures.</li></ul>
<b>Instructor Requirements:</b>	To deliver this course the instructor(s) must demonstrate credentials or training in instructional methods and learning processes through licensure or certification, including but not limited to certification as an electrical course provider in jurisdictions following the National Electric Code/NFPA 70. To the extent that the course instructor(s) holds, or has held, a trade license issued by the Department, it must be in good standing and not be surrendered to, suspended by or revoked by the Department.
<b>Curriculum Requirements:</b>	All <b>topics</b> listed under <b>Course Content Outline</b> must be covered using the listed <b>Instructional Delivery Method</b> . The time dedicated to each outline topic should be appropriate for the course content and can vary depending on the trade or job performed by the licensee. The <b>Instructional Delivery Materials</b> used in this course must contain all current applicable 2011 NYC Electrical Code amendments, references, current rules, policies, bulletins & chapters, articles & sections in the 2008 National Electrical Code.

**Course Content Outline**

1. Introduction to the Electrical Education Program
2. OSHA 1926 Overview - Safety & Health Regulations for Construction/Electrical
3. Review of Changes between the NYC 2007 & 2011
4. NYC Electrical Code Overview of Administrative Provisions  
Cover all applicable Administrative standard operating procedures, policy & procedure notices, permits/department notifications/forms, filing and site documents, plans, and inspection checklists/logs; Must cover major changes between the NYC 2008 Electrical Code and NYC 2011 Electrical Code; and NYC 2011 Electrical Code Title 27-3013 through 27-3018, excluding Section 27-3016.1 and 1 RCNY 34-04
5. NYC Electrical Code Overview of Technical Provisions- cover 2008 NEC, NYC Amendments to 2008 NEC & the following articles & code sections:  
**Article 100 Definitions**  
Coordination (Selective).  
Electric Closet  
**Article 110 Requirements For Electrical Installations.**  
110.2 (A), (B) & (C)  
110.25 Electric Closets  
110.34 Rear access to work on equipment  
**Article 210 Branch Circuits**  
210.11(C) (4) Air-Conditioning Branch Circuit  
210.19 (A) (1), 210.19 (A) (4) & Exception No.3  
210.25 Branch Circuits in Buildings  
210.52 (I) Residential A/C Outlet Requirements  
**Article 215 Feeders, Minimum Rating and Size**  
215.2 (A) (1) & (3) Feeder conductors & Exceptions # 3, 4, & 5  
**Article 220 Branch-Circuit, Feeder, and Service Calculations**  
220.14 (L) Other Loads – All Occupancies (NEC)  
220.14 (M) Air Conditioning Circuits  
220.87 Determining Existing Loads  
**Article 225 Outside Branch Circuits and Feeders**  
225.10 Wiring on Buildings  
225.36 Suitable for Service equipment  
**Article 230 Services**  
230.6 (5) Conductors Considered Outside the Building  
230.43 Wiring Methods for 600 Volts, Nominal, or Less  
230.46 Un-spliced Conductors  
230.54 Overhead Service Locations  
230.70 (A) (1) Readily Accessible Location  
**Article 250 Grounding and Bonding**  
250.52(A) (1) Metal Underground Water Pipe\*  
**Article 334 Nonmetallic-Sheathed Cable**  
334.10 Uses Permitted  
334.12 Uses Not Permitted  
**Article 352 Rigid Polyvinyl Chloride Conduit: Type PVC**  
352.10 Uses Permitted  
352.12 Uses Not Permitted  
**Article 362 Electrical Nonmetallic Tubing: Type ENT**  
362.10 Uses Permitted  
362.12 Uses Not Permitted  
**Article 430 Motors, Motor Circuits & Controllers**  
430.52 Rating or Setting for Individual Motor Circuit (NEC)  
**Article 450 Transformer & Transformer Vault**  
450.3 Overcurrent Protection(NEC)  
**Article 517 Health Care Facilities**  
517.30 (B) (4) Transfer Switches (NEC)  
517.41(B) Transfer Switches (NEC)  
**Article 590 Temporary Installations**  
590.8 Sidewalk Shed Lighting  
**Article 604 Manufactured Wiring Systems**  
604.1(A) General  
**Article 620 Elevators**  
620.21 Wiring Methods  
**Article 680 Swimming Pools**  
680.6 Grounding (NEC)  
**Article 690 Solar Photovoltaic Systems**  
690.1 Photovoltaic System Diagram  
690.64 Point of Connection  
**Article 695 Fire Pumps**  
**Article 700 Emergency Systems**  
All NYC Amendments  
**Article 701 Legally Required Standby Systems**  
All NYC Amendments  
**Article 760 Fire Alarm Systems**  
All NYC Amendments
6. NYC Department of Buildings Overview - cover  
1 RCNY 12-01 Emergency Power System Requirements and all applicable related department policy statements, regulatory notices, bulletins & memos, Administrative standard operating procedures, policy & procedure notices permits/department notifications, forms, filing & site documents, plans, inspection checklists/logs and wind & weather advisories

**Instruction Delivery Method**

Classroom Lecture w A/V Support  
Classroom Lecture/Discussion w A/V  
Classroom Lecture/Discussion w A/V  
Classroom Lecture/Discussion w A/V

Classroom Lecture/Discussion w A/V

Classroom Lecture/Discussion w A/V



## Department Approved Course Requirements

- |                                                                                    |                                     |
|------------------------------------------------------------------------------------|-------------------------------------|
| 7. Electrical Business Practices                                                   | Classroom Lecture/Discussion w A/V  |
| 8. Electrical Jobsite Safety & Hazards                                             | Classroom Lecture/Discussion w A/V  |
| 9. Electrical New Technology                                                       | Classroom Lecture/Discussion w A/V  |
| 10. <a href="#">NYC Buildings Unsafe Condition (311) Notification Procedure</a>    | Provide Copy to Trainee & Discuss   |
| 11. <a href="#">NYC/DOI Buildings Integrity Training Contact Information Sheet</a> | Provide Copy to Trainee & Discuss   |
| 12. Review all Training Topics                                                     | Discussion with Questions & Answers |