

Course Required for:	Licensee Continuing Education
Purpose:	This course is a requirement for all Master and Special Electricians to maintain their licenses to work in New York City.
Duration:	8 Hours of instructional time, excluding breaks and meals A single session may not exceed 9 1/2 hours, including breaks and meals. If two or more sessions are delivered the same day to the same student roster, a break must be scheduled between the sessions.
Class Size:	1 – 50 Trainees
NYC Requirement:	Per 1 RCNY §104-06 (b)(3) Electrician (Master/Special). During the one (1) year immediately prior to renewal, the licensee must have successfully completed a Department-Approved course that is at least eight (8) hours in length, covering the New York City Electrical Code and other requirements pursuant to section 105-03 of subchapter E of this chapter. 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.
Language Requirement:	All courses for a license or certificate of competence must be delivered in English. Per §28-401.6 of the NYC Administrative Code: Qualifications of applicant. All applicants for a license or certificate of competence shall be able to read and write the English language. Per 1 RCNY §105-03 (d)(1)(i) All courses must comply with the Department's course requirements published on its website, which lists the relevant citations for statutory or other requirements listed in this paragraph.
Delivery Requirements:	This course contains: <ul style="list-style-type: none">• Classroom Lecture/Discussion w A/V (Audio-Visual): oral presentation by an instructor to present information or teach students about a particular subject. The instruction may be delivered by a virtual live classroom; however, on-demand self-study modules are not permissible.• Handouts This course may be delivered: <ul style="list-style-type: none">• In-Person: gathers participants in the same physical location at the same time. Provides face-to-face interaction with the opportunity for participants to share and discuss what they are learning. Allows Hands-On practical exercises.• Virtual Live: a shared online space where learners and trainers work together simultaneously. Usually, these interactions take place through a videoconferencing platform (i.e., Zoom, Microsoft Teams).• Hybrid: a combination of In-Person and Virtual Live sessions. Although this course does not have a Hands-On component, the course provider may deliver the course as a combination of In-Person and Virtual Live sessions. This course may NOT be delivered: <ul style="list-style-type: none">• On-Demand: self-paced and can be taken anytime and anywhere from a device with internet access. No live instructor needed. On-Demand is only acceptable for courses that are for SST only.

**Delivery Requirements:
(cont'd)****Virtual Live training must comply with the following:**

- The course must be approved by the Department.
- The provider must confirm the identification of the individual taking such training by adhering to the actively proctored online format requirements
 - The provider must confirm the identification of the individual prior to providing secure access to the online training.
 - The individual must attest that they are the individual who received the online access and will complete the training without assistance. The online program must have secure access and monitor participation during the course of training to ensure that the individual receiving the training is present for the entirety of the training.
- The provider must ensure that participants have their web-cameras activated and are on-camera for the duration of class.

Facility Requirements:**Per 1 RCNY §105-03 (d) (4) Course Facilities:****The course facilities must:**

- Have sufficient room to accommodate all expected attendees and the equipment needed to perform Hands-On exercises, where required as part of the course.
- Make provisions for the presentation of training material in all media types (computer, projector, video/ DVD player, etc.) and
- Comply with all applicable laws, rules, and regulations relating to occupancy, zoning, egress, fire detection, fire suppression, light, ventilation, cleanliness, sanitary facilities, emergency notification, and evacuation procedures.

Training may be held at construction sites, provided the above requirements are met.

Instructor Requirements:**Per 1 RCNY §105-03 (e) Course Instructors:****Course providers must require that course instructor(s):**

- Demonstrate that they are credentialed or trained in instructional methods and learning processes.
- Successfully demonstrate their ability to solve or resolve problems relating to the subject matter by possession of a recognized degree, certificate, licensure, or professional standing, or by extensive knowledge, training, and experience in the subject matter being taught.
- 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.
- Comply with all applicable Federal, State, and local laws, rules, and regulations.
- Be in compliance with the Department's Industry Code of Conduct.
- For Master and Special Electrician courses, 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 Electrical Code/NFPA 70.

Course Requirements: Each section of the Course Content Requirements must be covered using its designated Instructional Delivery Method. 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 Instructional Materials used in this course must contain all current applicable NYC Construction Code references, current rules, policies, and bulletins.

All statistics referenced should reflect the latest publicly available statistics. The selection of Case Studies should prioritize incidents in NYC since the prior renewal period and contain relevant and illustrative photos where available.

Refresher or Renewal Courses should focus on the updates since the prior renewal period.

Course Content Requirements

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 & 2022
 - Local Law 39 of 2015 (Int. No. 433-A)
 - Local Law 46 of 2017 (Int. No. 247-A)
 - Local Law 108 of 2013 (Int. No. 1092-A)
 - Local Law 130 of 2013
 - Buildings Bulletin 2013-016
 - Local Law 78 of 2017
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;
 - 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 (l) 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

Instructional 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

Course Content Requirements

Instruction Delivery Method

5. NYC Electrical Code Overview of Technical Provisions cont'd

- 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

Classroom Lecture/Discussion w A/V

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

Classroom Lecture/Discussion w A/V

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. Handouts

- [NYC Buildings Unsafe Condition \(311\) Notification Procedure](#)
- [NYC/DOI Buildings Integrity Training Contact Information Sheet](#)
- [BC Chapter 27 Electrical Changes and Other Requirements Website](#)

11. Review all Training Topics