Department-Approved Course Requirements: 30-Hour Tower Crane Rigger

REVISED 06/26

Course Required for: **License Qualification Worker Training**

Purpose: This course is one of the licensing requirements for applicants for a **Tower Crane Rigger License.**

It is also a requirement for all workers engaged in the erection, jumping, or dismantling of a tower crane, including Licensed Riggers and the Rigger Foremen.

Duration: 30 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 §28-404.3.3 of the NYC Administrative Code: Tower crane rigger license qualifications.**

All applicants for a **tower crane rigger license** shall submit satisfactory proof establishing that the applicant:

- **Has, within the one (1) year prior to application, satisfactorily completed a department-approved training course for tower crane rigging that is at least 30 hours in length and in accordance with the requirements of section 3319.10.1 of the New York City Building Code**; and
- Has at least five (5) years of practical experience in the tower crane rigging business in the city of New York within the seven (7) years prior to application.

Per 2022 NYC Building Code §3319.10.1 Training requirements.

All workers engaged in the erection, jumping, or dismantling of a tower crane, including the licensed rigger and the rigger foreman, shall have satisfactorily completed a department-approved training course of not less than thirty hours. Such course shall, at a minimum, include instruction on fall protection, crane assembly and disassembly, pre-lift planning, weights and materials, the use of slings, lifting/lowering loads, signaling, and other proper means of communication with the crane operator, crane and hoist inspections, rigging requirements, and generally how to avoid incidents with cranes and hoists. The commissioner may, by rule, identify additional types of cranes for which such training is necessary. Any person who, within the three years prior to the effective date of this section, has successfully completed at least a thirty-hour training course need not take a second thirty-hour course, provided such person can provide to the department a dated certificate as set forth in this section evidencing completion of such a training course. Such person shall, however, take a department-approved eight-hour recertification course within three years of the initial course and every three years thereafter. Successful completion of the training or re-certification course shall be evidenced by a dated certificate issued by the provider of the training or re-certification course. The certificate shall include such information as specified by the department by rule. The certificate, or a valid wallet card version thereof, shall be readily available to the commissioner upon request.

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:

- **Demonstration(s):** shows how something is done while emphasizing its merits. The demonstration may be delivered either by a person or a video. Video Demonstrations may be delivered by a virtual live classroom; however, on-demand self-study modules are not permissible.
- **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**
- **In-class Written Assessment**

This course may be delivered:

- **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:

- **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 SST courses.

Training conducted via Virtual Live 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 he/she is 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.

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	Instruction Delivery Method
1. Introduction to Cranes and Derricks • Worker Training requirements • Tower Crane Rigger requirements	Classroom Lecture/Discussion w A/V
2. Jobsite Cranes and Derricks Incident Statistics and Prevention	Classroom Lecture/Discussion w A/V
3. CFR 29 OSHA 1926 Overview • Subpart E: (PPE- Personal Protective Equipment) • Subpart H: (Material Handling, Storage) • Subpart K: (Electrical) • Subpart L: (Scaffolds) • Subpart M: (Fall Protection) • Subpart CC: (Cranes and Derricks in Construction)	Classroom Lecture/Discussion with A/V

4. NYC Code Review – All applicable:
• Codes
• Rules
• Related department policy statements
• Regulatory notices
• Bulletins and memos, including:
  ○ 2022 Building Code, Chapter 33
  ○ 1RCNY 3316-01 3319-01
	Classroom Lecture/Discussion with A/V

5. NYC Department of Buildings – All applicable: • Administrative standard operating procedures • Policy and procedure notices • Permits • Department notifications • Forms • Filing and site documents • Plans • Inspection checklists/logs • Wind and weather advisories	Classroom Lecture/Discussion with A/V
6. Crane and Derrick Safety Protocols and Emergency Procedures	Classroom Lecture/Discussion w A/V
7. Crane Assembly and Disassembly	Classroom Lecture/Discussion w A/V
8. Pre-Lift Planning	Classroom Lecture/Discussion w A/V
9. Weights and Materials	Classroom Lecture/Discussion w A/V
10. Use of Slings	Classroom Lecture/Discussion w A/V
11. Lifting and Lowering Loads	Classroom Lecture/Discussion w A/V
12. Signaling and proper means of Communication with the Operator	Classroom Lecture/Discussion w A/V
13. Crane and Hoist Inspections	Classroom Lecture/Discussion w A/V
14. Rigging Requirements	Classroom Lecture/Discussion w A/V
15. Recurring Jobsite Cranes and Derricks Safety Problems	Classroom Lecture/Discussion w A/V
16. Jobsite Cranes and Derricks Incident Case Studies with Photos	Classroom Lecture/Discussion w A/V
17. Handouts • **NYC Buildings Unsafe Condition (311) Notification Procedure** • **NYC/DOI Buildings Integrity Training Contact Information Sheet**	Provide Copy to Trainee & Discuss
18. Review all Training Topics	Discussion with Questions & Answers
19. Written (Multiple Choice) Assessment	Classroom