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| Course Required for: | Worker Training |
| Purpose: | This course is a requirement for an individual to use or operate a Mast Climber in New York City. |
| Duration: | <p>4 Hours of instructional time, excluding breaks and meals</p> <p>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.</p> |
| Class Size: | 1 – 50 Trainees |
| NYC Requirement: | <p>Per 1 RCNY §3314-01 (m) 2:</p> <p>Individuals who operate or use a mast climber, including the person supervising such individuals, shall have completed a department-approved training course that is at least four (4) hours long, and a department-approved four (4) hour refresher course every (4) years thereafter that covers areas including, but not limited to, mast climber use and operation, hazards associated with such work, pre-use inspections, start up and shut down procedures, emergency descent procedures, fall protection, mast climber stability and balance, and storage of materials on a mast climber.</p> |
| Delivery Requirements: | <p>This course contains:</p> <ul style="list-style-type: none"> • 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 <p>This course may be delivered:</p> <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 (ex. Zoom, Microsoft Teams). • Hybrid: a combination of In-Person and Virtual Live sessions. Virtual Live sessions are a shared online space where learners and trainers work together simultaneously. Usually, these interactions take place through a videoconferencing platform (ex. Zoom, Microsoft Teams)..Lectures/ Demonstrations may be delivered in a Virtual Live Classroom; however, the Hands-On portions must be delivered In-Person. <p>This course may NOT be delivered:</p> <ul style="list-style-type: none"> • Virtual Live only: a shared online space where learners and trainers work together simultaneously. Usually, these interactions take place through a videoconferencing platform (ex. Zoom, Microsoft Teams). • 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 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 Virtual Live 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.
- Be authorized by the Occupational Safety and Health Administration (OSHA) as a trainer(s) for its Construction and Outreach Program.
- 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 |
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| 1. Introduction | Classroom Lecture/Discussion |
| 2. Mast Climber Incidents <ul style="list-style-type: none"> Common Causes & Prevention Incident Statistics Case Studies w/Photos | Classroom Lecture/Discussion w A/V |
| 3. OSHA 1926 Overview <ul style="list-style-type: none"> Subpart L – Supported Scaffolds | Classroom Lecture/Discussion w A/V |
| 4. NYC Construction Codes Overview - all applicable: <ul style="list-style-type: none"> Codes, Rules, Related department policy statements, Regulatory notices, Bulletins & memos including: <ul style="list-style-type: none"> 2022 Building Code, Chapter 33 Mast Climber Rule 3314-01 | Classroom Lecture/Discussion w A/V |
| 5. Use of Mast Climbers <ul style="list-style-type: none"> General fall protection from mast climbers Storage of material Guarding against falling objects Safe use of tools Maintaining the balance of the mast climber during work Avoiding overloads Avoiding fire hazards Avoiding electrical hazards | Classroom Lecture/Discussion w A/V |
| 6. Operation of Mast Climbers <ul style="list-style-type: none"> Overview of startup and shutdown procedures Basic controls Load charts Maintaining the stability of the mast climber during operation Wind shutdown criteria Emergency descent procedures | Classroom Lecture/Discussion w A/V |
| 7. Pre-shift Mast Climber Inspection <ul style="list-style-type: none"> Inspection of components, including <ul style="list-style-type: none"> Rollers, Travel cord basket, Cables, Platforms, Outriggers, Ties, Foundation/area resting upon, <ul style="list-style-type: none"> Controls, Limit switches, Emergency stops, Alarms, and Fences and railings Inspection to verify the stability of materials stored on the mast climber Inspection to verify mast climber in conformance with approved plans Reporting concerns/damage | Classroom Lecture/Discussion w A/V |
| 8. Incident Reporting and Protocols | Classroom Lecture/Discussion w A/V |
| 9. Handouts <ul style="list-style-type: none"> NYC Buildings Unsafe Condition (311) Notification Procedure NYC/DOI Buildings Integrity Training Contact Information Sheet | Provide Copy to Trainee & Discuss |
| 10. Review all Training Topics | Discussion with Questions & Answers |
| 11. Written (Multiple Choice) Assessment | Classroom |