

Course Syllabus

Course Title: 32 Hour Suspended Scaffold Supervisor Safety Course

Course Length: 32 Hours: 18 hours of classroom instruction – 12 hours of hands-on training – 2 hours for final exam.

CEU's: 3

Prerequisites (course and/or tests): Students must demonstrate an ability to read and write in English. It is recommended that students possess some experience in rigging operations, supervision and use of suspended scaffold systems.

Text Name: Skybridge developed course hand out

Course Description: As per Title 1 Rules of the City of New York - Chapter 9 Rigging Operations, this course is required by the New York City Department of Buildings (DOB) to supervise suspended scaffold projects on construction sites in New York City. During this course, participants will develop the core management skills required to be an effective supervisor of suspended scaffolding operations, which contributes to the professional development of an individual and provides evidence of supervisory qualifications. With the use of New York City Construction Codes and OSHA Regulations, participants will learn how to stay in compliance with the most current suspended scaffold standards. Material covered during the course is much more extensive than during the user course, and will include guidance on how to read scaffold design drawings, how to verify the fitness of the rigging crew, properly train workers on related hazards, and also how to identify and respond to emergency situations. This course is aimed at experienced workers interested in suspended scaffold project supervision as well as safety managers, superintendents, and individuals planning to apply for New York City Master or Special Rigger's license. Upon successful completion of the course, participants will receive a 32 Hour Suspended Scaffold Supervisor course completion picture ID card that will be valid for 4 years.

Learning Outcomes:

Upon completion of this course, the student will be able to:

1. Identify suspended scaffold systems and their essential components
2. Discuss common suspended scaffold hazards based on statistical and historical data provided
3. Outline differences between OSHA and NYC DOB scaffold regulations and their sources
4. Demonstrate practical skills necessary to properly install and maintain fall protection systems used on suspended scaffolds

5. Create a suspended scaffold inspection checklist using provided requirements
6. Apply various applications & connection techniques using ropes, knots & hitches
7. Assemble the block and tackle for a fiber rope light duty scaffold.
8. Construct the wire rope termination for hoisting rope on suspended scaffolds.

Methodology:

This course will consist of power point presentation, lecture, real life case studies, class discussion, hands-on demonstration, and class hands-on exercises.

During the hands-on portion, students will be required to demonstrate ability to apply rope knots used for rigging, terminate a wire rope, build block and tackle system, effectively install fall protection systems, and inspect/maintain different types of scaffold hoist motors. Immediately prior to the end of the course, students will independently participate in a 50-question multiple-choice final exam. Students will be graded based on the hands-on performance and the exam result.

Course Outline:

1. Introduction to Suspended Scaffolds Types
2. Major Components
3. Suspended Scaffold Accidents Common Causes & Prevention
Accident Statistics
Case Studies w/Photos
4. OSHA 1926 Overview - Safety & Health Regulations for Construction Subpart E - Personal Protective Equipment & Life-Saving Equipment (PPE), Subpart L - Scaffolds, Subpart M - Fall Protection
5. NYC Construction Codes Overview - cover all applicable codes, rules, related department policy statements, regulatory notices, bulletins & memos, including Title 1 Rules of the City of New York - Chapter 9 Rigging Operations; Construction Codes
6. Building Code - Chapter 33 - Safeguards during Construction & Demolition
7. NYC Department of Buildings Overview - cover all applicable Administrative standard operating procedures, policy & procedure notices, permits/department

- notifications, forms, filing & site documents, plans, inspection checklists/logs,
and wind & weather advisories
8. General Principles of Fall Protection
Fall Clearance, Total Fall Distance Calculations, Minimizing Fall Forces,
Guarding Against Falling Objects
 9. Personal Protective Equipment & Fall Arrest Systems Selection, Fit Test of
Harness, Inspection Procedures, Donning & Doffing Harness & Equipment, Care
of Equipment & Systems
 10. Suspended Scaffold Use, Safe Use of Tools
 11. Safety Hazards Including Fire Hazards
Set-up/Start-up Procedures
Attach to Structurally Sound Objects with C-Hook, Outrigger System, Pennant &
Parapet Clamp
Raising and Lowering the Scaffold
Shutdown and Securing the Scaffold
 12. Hoist, Platform & Rigging Equipment Practices, Electrical Cables
 13. Modular & Corner Scaffolds Special Rigging Conditions
 14. Maximum Intended Loads & Capacity Reducing Factors
 15. Rope, Fall, Knot & Hitch Configurations & Connections Various Applications &
Connection Techniques using ropes, knots & hitches - night, clove, rolling, timber
hitch, bowline, sheep bend, square knot, additional knots, bends & hitches
 16. Wire Rope & Termination Techniques
 17. Basic Rope, Fall, Hoist, Block & Rigging Set-ups & Procedures
 18. Lifelines, Rope & Cable Grabs Chaffing Gear for Lifelines & Cables
 19. Electric Motors, Controls & Cables
 20. Chemical Building Cleaning
 21. Welding
 22. Suspended Scaffold Inspections: Equipment & Rigging Hardware
 23. Rejection Criteria for Equipment & Rigging Hardware
 24. Safety Checklists: Pre-start, Scaffold Operation & Shut Down

25. Emergency Situations & Preparedness Procedures
26. NYC Buildings Unsafe Condition (311) Notification Procedure
27. NYC DOI/Buildings Integrity Training Contact Information Sheet
28. Review of All Training Topics
29. Written Assessment
30. Hands-on Performance Assessment

Criteria for “Successful Completion”:

100% attendance for the course and active participation in learning activities including hands-on exercises and the end exam is required. Students must earn a score of 70% or higher on the written and practical examination to receive a certificate of completion.

Hands-on assessment will be made by instructor to determine if each student is capable of applying rope knots, terminating wire rope, building a block, effectively installing fall protection systems, and inspecting/maintaining different types of scaffold hoist motors.

Students who do not pass written or practical written exam will have one opportunity to retake the entire 32 Hour course and retake exam at reduced fee of \$200.

Make-up time is not permitted for this training course. Students who miss time from any individual session or miss one or more sessions of any scaffold course must reschedule and attend the full training course. For Skybridge full attendance and make-up time policies please refer to www.skybridgerestoration.com or the Student Policy and Information Form.

Criteria for “Successful Completion” For Skybridge Continuing Education

Certificate:

1. 100% attendance for the course
2. Completion of Continuing Education and Training Registration Form
3. Active participation in all class exercises (determined by course instructor)
4. Completion of required pre-and post-quiz assessment
5. As applicable, achievement of minimum passing score on required end-of-course examination
6. Participation and submittal of end-of-course evaluation form (must provide name on form to receive credit)

Disclaimer: Skybridge instructor (s) has no financial or nonfinancial interest or related personal interest of bias in any organization whose products or services are described, reviewed, evaluated or compared in the presentation.

Reference Materials:

- New York City, New York, 1 RCNY § 9-01, § 9-02, § 9-03 (2001)
- New York City, New York, Administrative Code § 28-404.1-404.4.3
- New York City, New York, Building Code § 3301.1-10, § 3307.1-10, § 3314.1-19, § 3316.1-8, § 3317.1-5
- 29 C.F.R. § 1926.95-104, 250-251, 400-405, 450-452, 500-503 (2013)