Course Syllabus

Course Title: 8 Hour Suspended Scaffold Supervisor Refresher Safety Course

Course Length: 8 Hours:
6 hours of classroom instruction – 1 hour of hands-on training – 1 hour for final review quiz.

CEU's: .8

Prerequisites (course and/or tests): In order to attend, students must present 32 Hr Suspended Scaffold Supervisor ID card to from approved training provider.

Reference Materials: 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 continue to supervise & use suspended scaffolds in New York City. The designated suspended scaffold supervisor must successfully complete this 8 hour Suspended Scaffold Supervisor Refresher Course four years following completion of the 32- Hour Suspended Scaffold Supervisor Course & every four years thereafter. During this course, participants will exchange their experiences and will discuss most recent changes in the rigging industry. Federal scaffold regulations (both OSHA and DOB) will also be covered to help supervisors maintain adequate safety discipline on suspended scaffold projects in New York City. Upon successful completion of the course, participants will receive an 8 Hour Suspended Scaffold Supervisor Refresher 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 common causes of scaffold accidents and ways to prevent them

2. Explain particular differences in Federal Suspended Scaffold Regulations and how to apply them on construction sites in New York City

3. Demonstrate practical skills necessary to properly install and maintain Fall Protection Systems used on Suspended Scaffolds

4. Apply Various Applications using ropes, knots & hitches, Block & Tackle and Wire Rope Termination

5. Show understanding and capability of safe Suspended Scaffold project supervision.

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 multiple choice quiz, which will then be discussed and reviewed within the class with instructor oversight. Students will not be required to achieve a passing score and the quiz is intended to serve as a review of the course topics.

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 ’08;

6. Building Code ‘08 - 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

Course Outline Continued:

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 participate in learning activities including hands-on exercises and end review quiz required to receive course completion card.

Hands-On Assessment will be made by Instructor to determine if each student is capable of applying rope knots, terminate wire rope, build a block, effectively install fall protection systems and inspect/maintain different types of scaffold hoist motors.

Student will not be eligible to receive certificate of completion without making up missed time. In no case is student permitted to make up more than 2 hours of missed class time. It is the student's responsibility is to contact Skybridge to schedule a make up session or arrange to attend another scheduled event.

Criteria for "Successful Completion" For Skybridge Continuing Education Certificate:

1. 100% attendance for the course
2. Completion of student CEU Course Registration Form
3. Active participation in all class exercises including Hands-On Assessment
4. Submittal of Student Answer Sheet for End-of-Course Quiz-Although the assessment will not be graded they will be administered to allow the student to assess their grasp of the subject matter. A mark of 70% or better will be an indicator of successful learning.
5. Completion and submittal of end-of-course evaluation form

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(2008)
- 29 C.F.R. § 1926.95-104, 250-251, 400-405, 450-452, 500-503 (2013)