



COURSE 12858

Scaffolds

Exam Material

Uscontractorlicense LLC

PO Box 268 / Platteville, Wisconsin 53818 / 608.348.6688 / www.uscontractorlicense.com

Summary Of This Course

Scaffolds

Approved by the

Wisconsin Department of Safety and Professional Services Safety and Buildings Division

Course Identification Number 12858

Educational Credit Hours: 4 Hours

Course Provider:

USCONTRACTORLICENSE LLC

P.O. Box 268

Platteville, WI 53818-0268

(608) 348-6688

www.uscontractorlicense.com

On December 16, 2010 OSHA issued Compliance Guidance for Residential Construction which rescinded the Interim Fall Protection Compliance Guidelines for Residential Construction. Scaffolding is one component of the residential construction fall hazard regulations. This course is intended to assist employers and employees in their efforts to comply with the current OSHA scaffold requirements for construction work, as falls are the leading cause of death for workers engaged in residential construction.

This Course is approved for the following electrical Registrations/Certifications or Licenses:

Automatic Fire Sprinkler Contractors License	4 Hours of Continuing Education	Registered Electrician
Automatic Fire Sprinkler Contractor - Maintenance License	4 Hours of Continuing Education	Residential Journeyman Electrician
Cross Connection Control Tester	4 Hours of Continuing Education	Residential Master Electrician
Commercial Plumbing Inspector	4 Hours of Continuing Education	Plumbing Inspector
Dwelling Contractor Qualifier	4 Hours of Continuing Education	Utility Contractor
Elevator Inspector	4 Hours of Continuing Education	
Elevator Mechanic	4 Hours of Continuing Education	
Elevator Mechanic - Restricted	4 Hours of Continuing Education	
Industrial Journeyman Electrician	4 Hours of Continuing Education	
Journeyman Electrician	4 Hours of Continuing Education	
Journeyman Automatic Fire Sprinkler Fitter	4 Hours of Continuing Education	
Journeyman Plumber	4 Hours of Continuing Education	
Journeyman Plumber - Restricted Appliance	4 Hours of Continuing Education	
Lift Mechanic	4 Hours of Continuing Education	
Manufactured Home Installer	4 Hours of Continuing Education	
Master Electrician	4 Hours of Continuing Education	
Master Plumber	4 Hours of Continuing Education	
Master Plumber - Restricted Appliance	4 Hours of Continuing Education	

This course is a distance learning or e-learning course, which allows the attendee to complete the course on their time schedule.

Course Outline

This course is a distance learning or e-learning course, which allows the attendee to complete the course on their time schedule.

Scaffold Introduction
Ladders and Stairways
Stair Towers
Ramps and Walkways
Scaffold Use in the Construction Industry
General Requirements for Scaffolds
Criteria for Suspended Scaffolds
Access Requirements
Fall Protection Requirements
Specific Scaffold Requirements
Aerial Lift Requirements
Appendix
Definitions Used In The Document

Exam

40 questions related to the reference materials are used to test the attendee on their comprehension of the materials. A 70% score will need to be attained in order to pass this course.

Answer Sheet(s)

1 bubble style answer sheets are included. When you are finished with the exam, you may return the answer sheets for grading to:

By Mail: Uscontractorlicense LLC
PO Box 268
Platteville, Wisconsin 53818

By Email: michael@uscontractorlicense.com
By Fax: 608-571-0096

Once we get the answer sheets back, we will grade them, enter your hours into the attendance portal and email or mail you back your certificate of completion(s). You will be responsible for renewing your license with the DSPS at www.license.wi.gov website.

Any questions, please contact us at 608.348.6688

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Scaffolds Exam

1. According to the U.S. Bureau of Labor Statistics (BLS), an average of _____ are killed from scaffolds each year.

- a. 79 workers
- b. 89 workers
- c. 99 workers
- d. 109 workers

Scaffold Access

2. Hook-on and Attachable Ladders must have their lowest rung no more than _____ above the level on which the scaffold is supported.

- a. 12 inches
- b. 18 inches
- c. 24 inches
- d. 32 inches

3. Stairway-type Ladders must have rest platforms at _____ intervals.

- a. 8-foot maximum
- b. 12-foot maximum
- c. 18-foot maximum
- d. None of the above

4. Stair Towers: Stair-rails must not be less than _____ nor more than _____ from the surface of the tread.

- a. 20 inches/ 30 inches
- b. 28 inches/ 30 inches
- c. 20 inches/ 37 inches
- d. 28 inches/ 37 inches

5. Ramps and Walkways must have guardrails which comply with (29 CFR 1926.502(b)) 1926 Subpart M if more than _____ above lower levels.

- a. 2 feet
- b. 4 feet
- c. 6 feet
- d. None of the above

Scaffolds Use in the Construction Industry

Summary and Explanation of the Final Rule

6. Each employee on a single-point and two-point adjustable suspended scaffold _____ protected by both a personal fall arrest system and a guardrail.

- a. shall be
- b. should be
- c. can be
- d. may be

7. Training—Employers _____ train each employee who works on a scaffold on the hazards and the procedures to control the hazards.

- a. may
- b. should
- c. can
- d. must

8. Inspections—Before each work shift and after any occurrence that could affect the structural integrity, a competent person must inspect _____ for visible defects.

- a. the scaffold
- b. the scaffold components
- c. the scaffold and scaffold components
- d. the scaffold and work area

9. OSHA's scaffolding standard defines a competent person as "one who is capable of identifying _____ in the surroundings or working conditions, which are unsanitary, hazardous to employees, and who has _____ to take prompt corrective measures to eliminate them."

- a. existing and predictable hazards
- b. existing hazards
- c. authorization
- d. both a. and c.

10. When is a competent person required for scaffolding?
For Training: To train employees involved in _____ scaffolds to recognize associated work hazards.

- a. erecting or disassembling
- b. moving, maintaining or repairing
- c. operating or inspecting
- d. All of the above

11. When is a competent person required for scaffolding?
For Scaffold Components: To determine if a scaffold will be structurally sound when intermixing components from different manufacturers.

- a. True
- b. False

12. When is an engineer required? The standard requires a registered professional engineer to perform the following duties in these circumstances:

1. For Suspension Scaffolds

2. For Design

Which of the following duties are examples for Design?

- a. To design scaffolds that are to be moved when employees are on them.
- b. To design pole scaffolds over 60 feet (18.3 meters) in height.
- c. To design brackets on fabricated frame scaffolds used to support cantilevered loads in addition to workers.
- d. All of the above

General Requirements for Scaffolds

13. What is one of the capacity requirements for scaffolds and scaffold components?

- a. Each scaffold and scaffold component must support without failure its own weight and at least four times the maximum intended load applied or transmitted to it.
- b. Each scaffold and scaffold component must support without failure its own weight and at least five times the maximum intended load applied or transmitted to it.
- c. Each scaffold and scaffold component must support without failure its own weight and at least six times the maximum intended load applied or transmitted to it.
- d. Each scaffold and scaffold component must support without failure its own weight and at least seven times the maximum intended load applied or transmitted to it.

14. Which of the scaffold platform construction requirements below is correct?

- a. Each platform must be planked and decked as fully as possible with the space between the platform and uprights not more than 1 inch (2.5centimeters) wide. The space must not exceed 7 inches (24.1centimeters) when side brackets or odd-shaped structures result in a wider opening between the platform and the uprights.
- b. Each platform must be planked and decked as fully as possible with the space between the platform and uprights not more than 1 inch (2.5centimeters) wide. The space must not exceed 8 inches (24.1centimeters) when side brackets or odd-shaped structures result in a wider opening between the platform and the uprights.
- c. Each platform must be planked and decked as fully as possible with the space between the platform and uprights not more than 1 inch (2.5centimeters) wide. The space must not exceed 9 inches (24.1centimeters) when side brackets or odd-shaped structures result in a wider opening between the platform and the uprights.
- d. Each platform must be planked and decked as fully as possible with the space between the platform and uprights not more than 1 inch (2.5centimeters) wide. There is no space restriction for side brackets or odd-shaped structures.

15. What is the maximum deflection of a platform?

- a. not more than 1/30 of the span when loaded
- b. not more than 1/40 of the span when loaded
- c. not more than 1/50 of the span when loaded
- d. not more than 1/60 of the span when loaded

16. How wide does the work area need to be on scaffolding?

- a. Each scaffold platform and walkway must be at least 18 inches wide.
- b. Each scaffold platform and walkway must be at least 24 inches wide.
- c. Each scaffold platform must be 24 inches wide and each walkway must be at least 18 inches wide.
- d. Each scaffold platform must be 18 inches wide, but there is no restriction on walkways.

17. Supported scaffolds are platforms supported by _____ or similar rigid support.

- a. legs or outrigger beams
- b. brackets, poles or posts
- c. uprights or frames
- d. All of the above

18. Do employees working on supported scaffolds need to be trained?

- a. All employees must be trained by a qualified person.
- b. Training for supported scaffolds is optional.
- c. Only supervisors and monitors need to be trained by a qualified person.
- d. Only the company owner needs to be trained by a qualified person.

19. Supported scaffolds' poles, legs, posts, frames, and uprights _____ bear on base plates and mud sills, or other adequate firm foundation.

- a. can
- b. may
- c. must
- d. should

20. Forklifts can support platforms when the entire platform is attached to the fork and the forklift moves horizontally when workers are on the platform.

- a. True
- b. False

21. A large area scaffold consists of a pole, tube and coupler system, or a fabricated frame scaffold erected over _____ work area.

- a. substantially the entire
- b. 75% of the
- c. 60 % of the
- d. None of the above

22. Some of the requirements for all types of suspension scaffolds include:

- a. A competent person must evaluate all direct connections prior to use to confirm that the supporting surfaces are able to support the imposed load
- b. All suspension scaffolds must be tied or otherwise secured to prevent them from swaying, as determined by a competent person.
- c. Guardrails, a personal fall arrest system, or both must protect each employee more than 10 feet (3.1 meters) above a lower level from falling.
- d. All of the above

23. Counterweights used to balance adjustable suspension scaffolds must be able to resist at least _____ the tipping moment imposed by the scaffold operating at either the rated load of the hoist, or one-and-a-half (minimum) times the tipping moment imposed by the scaffold operating at the stall load of the hoist, whichever is greater.

- a. two times
- b. three times
- c. four times
- d. There is no standard for counterweights

24. Sand, masonry units, or rolls of roofing felt cannot be used as counterweights.

- a. True
- b. False

25. Tiebacks for outrigger beams, cornice hooks, roof hooks, roof irons, parapet clamps, or similar devices _____ be secured to a structurally sound anchorage on the building or structure.

- a. should
- b. can
- c. must
- d. may

26. Drum hoists must contain _____ of the rope at the lowest point.

- a. no less than two wraps
- b. no less than four wraps
- c. no more than one wrap
- d. no more than three wraps

27. Employers must replace wire rope when the following conditions exist: kinks; _____ randomly broken wires in one rope lay or _____ broken wires in one strand in one lay; one third of the original diameter of the outside wires is lost; heat damage; evidence that the secondary brake has engaged the rope; and any other physical damage that impairs the function and strength of the rope.

- a. four/ two
- b. four/ three
- c. six/two
- d. six/ three

28. _____ may be used to increase the working height on a suspension scaffold.

- a. Ladders
- b. Boxes
- c. Barrels
- d. None of the above (no materials or devices may be used)

29. The standard for the access to scaffolds prohibits the use of _____ as a means of access.

- a. crossbraces
- b. ladders
- c. ramps
- d. stair towers

30. Employees erecting and dismantling supported scaffolding must have a safe means of access provided when a competent person has determined the feasibility and analyzed the site conditions.

- a. True
- b. False

31. The use requirements specify clearance distances between scaffolds and powerlines. What is the minimum distance for an insulated line of 300 volts to 50 kv?

- a. 5 feet
- b. 7 feet
- c. 10 feet
- d. There is no minimum distance requirement.

32. What type of fall protection do I have to provide if I use a supported scaffold?

- a. Personal fall arrest system and guardrail system
- b. Personal fall arrest system or guardrail system
- c. Grab line
- d. None of the above

33. Employers must provide fall protection for each employee on a scaffold more than _____ above a lower level.

- a. 3 feet
- b. 5 feet
- c. 7 feet
- d. 10 feet

34. _____ must be used when working on single- and two-point adjustable suspension scaffolds and self-contained adjustable scaffolds that are supported by ropes.

- a. Fall arrest
- b. Guardrail system
- c. Grab line
- d. Both a. and b.

35. Some specific requirements for aerial lifts include the following:

- a. Only authorized personnel can operate aerial lifts.
- b. Employees must wear personal fall arrest systems, with the lanyard attached to the boom or basket.
- c. Lift controls must be tested daily.
- d. All of the above

Other Sources of OSHA Assistance

36. In addition to helping employers identify and correct specific hazards, OSHA's consultation service provides _____, onsite assistance in developing and implementing effective workplace safety and health management systems that emphasize the Comprehensive consultation assistance provided by OSHA includes a hazard survey of the worksite and an appraisal of all aspects of the employer's existing safety and health management system.

- a. free
- b. small fee
- c. flat fee
- d. income based fee

37. Consultation assistance is available to small employers (with fewer than 250 employees at a fixed site and no more than _____) who want help in establishing and maintaining a safe and healthful workplace.

- a. 250 corporate wide
- b. 350 corporate wide
- c. 400 corporate wide
- d. 500 corporate wide

38. If an employer fails to eliminate or control a serious hazard within the agreed-upon time frame, the consultation project manager _____ refer the situation to the OSHA enforcement office for appropriate action.

- a. can
- b. should
- c. must
- d. may

39. More than _____ dealing with subjects such as safety and health in the construction industry and methods of compliance with OSHA standards are available for personnel in the private sector.

- a. 37 courses
- b. 47 courses
- c. 57 courses
- d. 67 courses

40. To report an emergency, file a complaint, or seek OSHA advice, assistance, or products, call (800) 321-OSHA or contact your nearest OSHA regional or area office. The teletypewriter (TTY) number is (877) 889-5627. Wisconsin falls under which regional office?

- a. Region III
- b. Region V
- c. Region VII
- d. Region X

END OF THE EXAM

