



# **1926 Construction Hoists and Elevators**

# Construction false cars and running/working platforms

# Hoists and Elevators

There is some discussion in the conveyance industry regarding false cars and running/working platforms being classified as suspended scaffolds.

There is not much difference between the industry safety practices we use and the OSHA regulations regarding safety while working from these conveyances.

During this presentation, we will reference industry practices as well as applicable OSHA standards for false cars, running/working platforms, and suspended scaffolds.

## False cars and running/working platforms

### Objectives

1. Identify false cars and running/work platforms
2. Describe types of common safety hazards
3. Apply safety hazard protection methods

# Hoists and Elevators

**False Car** means a temporary movable hoistway working platform, generally assembled on the jobsite by the Elevator Constructors for the purpose of installing elevator equipment. This conveyance will have manual or overspeed safeties, and its suspension means are temporary.



# Hoists and Elevators

**Running/working platform** means a permanent elevator car sling and platform used for the purpose of installing elevator equipment. This conveyance will require the installation of governor actuated safeties or overspeed device and permanent or temporary suspension means. Before hoisting or roping of a platform, the governor or overspeed device must be installed and attached to the safety releasing arm and tested to ensure that the safety is operational. The working platforms below are using a temporary hoist for the suspension means.

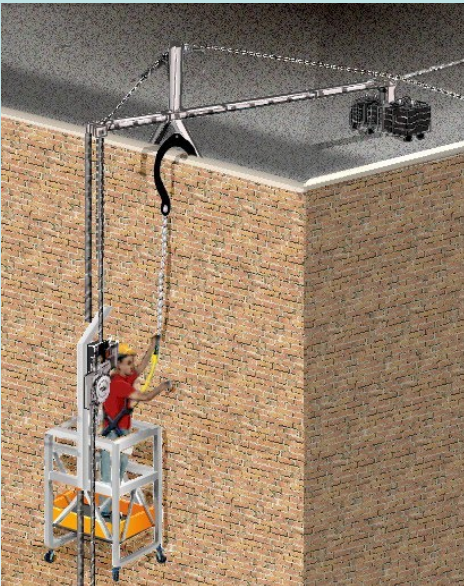


# Hoists and Elevators

**1926.450(b):**

**Suspension scaffold** means one or more platforms suspended by ropes or other non-rigid means from an overhead structure(s).

**Two-point suspension scaffold (swing stage)** means a suspension scaffold consisting of a platform supported by hangers (stirrups) suspended by two ropes from overhead supports and equipped with means to permit the raising and lowering of the platform to desired work levels.



# Hoists and Elevators

This working platform is using the permanent hoist machine and roping, and requires the installation of the governor. The governor rope must be attached to the safety releasing arm and tested to ensure that the safety is operational.





# Hoists and Elevators

Platform materials are usually pre-engineered and sent directly from the manufacturer. Always follow manufacturer's instructions when installing platforms and guardrail systems.



# Hoists and Elevators

## Fall Protection Required

If a fall hazard exists, the conveyance must meet the fall protection requirements of OSHA 1926.502. Always follow your company safe work practices for fall hazards.



## Overhead Protection

In addition to fall protection, overhead protection must be provided to protect workers from objects falling down the hoistway.

This can be accomplished by fully enclosing the hoistway openings with protective netting, installing a canopy structure on the conveyance, or barricade the area to prohibit people from entering.

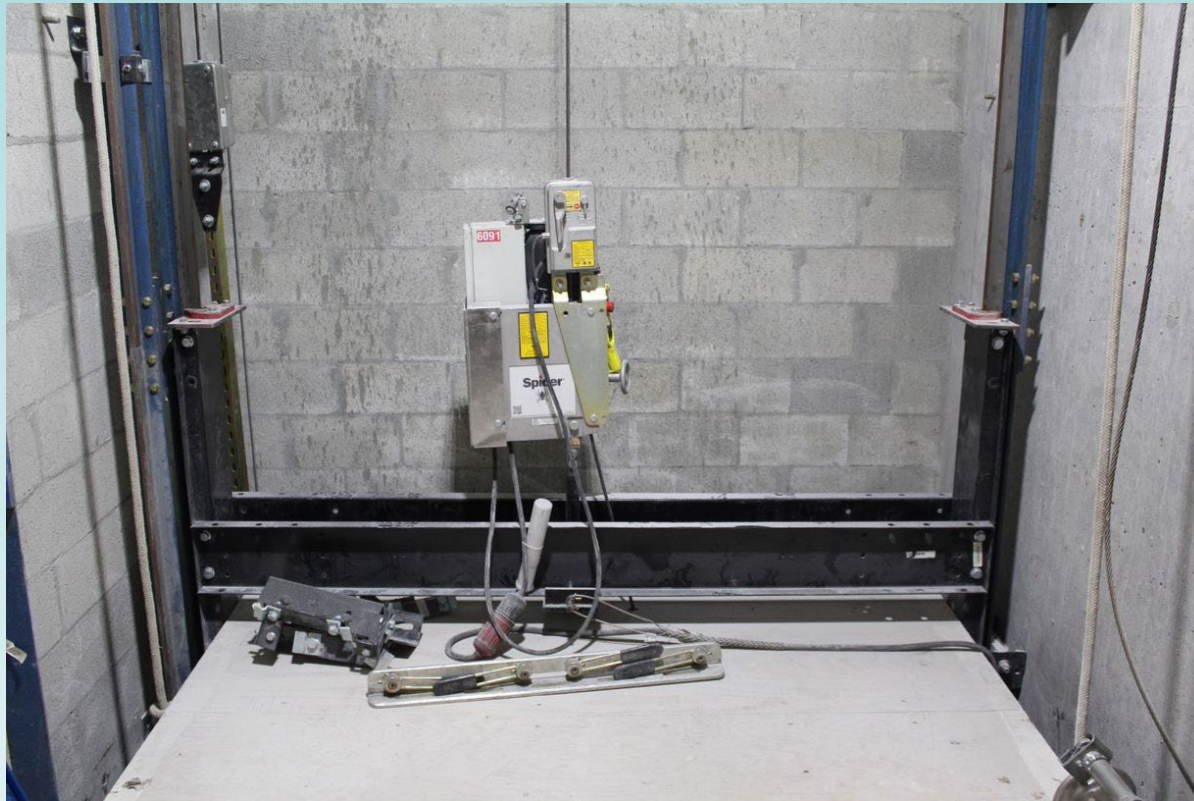


# Hoists and Elevators

## Testing/Inspection

Temporary hoists must have the safeties tested before each shift, and the hoist cable must be inspected daily.

Always follow the hoist manufacturer's instructions for testing and inspection.



# Hoists and Elevators

## Power Cables and Run Buttons

- Power cables and temporary run button cords should always have a strain relief on the cord.
- Temporary run buttons must ALWAYS have a minimum of 5 wires with an independently wired emergency stop switch, and must have safe, up, and down buttons.
- Never use a pendant station with only an up and down button.
- Temporary run button cords should NEVER be spliced. OSHA Standard 1926.405(g)(2)(iii) states: Flexible cords shall be used only in continuous lengths without splice or tape (see note on OSHA standard for hard service flexible cords no. 12 or larger)



## Summary

- The hoistway is your space. No other trades should ever work above you.
- Always follow your company's policies and procedures when assembling and operating false cars and running/working platforms.
- Inspect and test equipment according to the manufacturer's instructions.
- Identify and follow capacities for false cars and running/working platforms.

## Check Your Knowledge

Overhead protection can be accomplished by installing guardrails at all hoistway openings.

- a. True
- b. False

**b. False.**

**Overhead protection can be accomplished by installing debris netting at all hoistway openings.**

## Check Your Knowledge

How often must the safeties be tested on a temporary hoist?

- a. Daily
- b. Weekly
- c. Monthly
- d. Before each shift

**d. Before each shift**



## Check Your Knowledge

Temporary run buttons must ALWAYS have a minimum of 5 wires with an independently wired emergency stop switch, and must have safe, up, and down buttons.

- a. True
- b. False
  
- d. True**



## Hoists and Elevators