



# **CDF MEWP Interactive Self-Driven Workbook**

## **Mobile Elevating Work Platform – Operator & Awareness Training**

**CDF Training LLC**

*“Train like it matters, because it does.”*

OSHA-Compliant | ANSI A92.22 & A92.24 Aligned

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## 1 – Introduction & Objectives

This workbook is a self-paced guide to help you learn the safe use of **Mobile Elevating Work Platforms (MEWPs)**.

Use it during training, refresher courses, or before practical evaluations.

### Objectives

- Identify MEWP types, hazards, and safe-operating practices.
- Perform and document pre-use inspections.
- Apply correct fall protection for scissor and boom lifts.
- Demonstrate safe operation during practical evaluation.

#### **Pro Tip:**

Every question and scenario here connects to real-world job-site behavior. Practice like you work—because you’ll work how you practice.

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## 2 – Understanding MEWPs

### Definition

A MEWP is any powered device that lifts personnel, tools, or materials to elevated positions safely.

#### **OSHA 1926.453:**

> “Any vehicle-mounted device designed to raise personnel, including extendable boom platforms, aerial ladders, articulating boom platforms, vertical towers, or combinations of these.”



## Groups & Types

Group	Description	Example	Primary Fall Protection
<b>A</b>	Vertical-only movement	Scissor Lift	Guardrails
<b>B</b>	Outreach movement beyond base	Boom Lift	PFAS / SRL

Type	Movement Control Location	Example
<b>1</b>	Moves only while stowed	Trailer Lift
<b>2</b>	Travels when elevated – ground control	Specialty vehicle
<b>3</b>	Travels when elevated – platform control	Scissor / Boom

- ✦ **Knowledge Check** 1. A boom lift falls under which Group? \_\_\_\_\_  
 2. Guardrails serve as main fall protection for which Group? \_\_\_\_\_  
 3. What does “Type 3” mean? \_\_\_\_\_

## 3 – Know the Rules

Follow both **OSHA 1926.453** and **ANSI A92.22** Safe-Use Standard.

**Operators must:** - Read the operator’s manual and warning decals.

- Perform pre-use inspections and tag out defects.
- Maintain **10 ft minimum** from energized lines ≤ 50 kV (increase with voltage).
- Stay within rated load, capacity, and slope limits.
- Operate only if trained and authorized.
- Retrain when equipment or job-site conditions change.

**⚠ Caution:**

**Different brands = different controls. Never assume familiarity is competence.**

### Scenario

You’re assigned a lift whose controls differ from your usual model.

> What steps will you take before operating? \_\_\_\_\_



## 4 – Pre-Use Inspections

Perform and document a complete inspection before each shift or operator change.

Item	Check For	Pass/Fail	Notes
Tires/Wheels	Damage or debris		
Platform / Rails	Secure gate & chains		
Controls & Alarms	Proper function		
Hydraulics	Leaks or damage		
Power System	Fuel/Battery condition		
Emergency Descent	Working properly		

### Pro Tip:

Always complete a **function test** after walk-around—before raising the platform.

### Scenario

You find a small hydraulic leak beneath the lift.

> What should you do next? \_\_\_\_\_

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## 5 – Fall Protection Systems

### Scissor Lifts (Group A)

- Guardrails = primary fall protection.
- Gate closed at all times.
- Stay fully inside platform.

### Boom Lifts (Group B)

- Wear a **full-body harness** attached to manufacturer-approved anchor point ( $\geq$  5,000 lb).
- Use short lanyard or SRL to reduce ejection risk.
- Tie-off only to designated anchors—never to rails or structures.



**✗ Do Not:**

- Stand on rails or use ladders in basket.
- Tie off to fixed objects.

- ✚ Knowledge Check**
1. Minimum anchor rating? \_\_\_\_\_ lb
  2. Which group requires a harness + SRL? \_\_\_\_\_
  3. Primary fall protection on scissor lifts? \_\_\_\_\_
- 

## 6 – Power Lines & Buffer Zones

Maintain **10 ft clearance** from energized lines  $\leq$  50 kV; increase with voltage.  
Treat all lines as energized unless verified and grounded.

- If contact occurs:**
1. Stay inside platform.
  2. Instruct others to remain 35 ft away.
  3. Call utility to de-energize.

### Scenario

Your spotter reports the boom is 8 ft from a 69 kV line.  
> What should you do immediately? \_\_\_\_\_

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## 7 – Refueling & Battery Safety

### Fueling

- Lower platform and shut off engine.
- Ground nozzle to filler neck.
- No smoking or open flames.
- Clean spills immediately.



## Battery Charging

- Disconnect charger before servicing.
- Charge only in ventilated areas.
- Inspect cables and connectors.
- Wear gloves and eye protection.

### **Caution:**

Charging batteries indoors without ventilation can create explosive gas.

-  **Quick Check** 1. What must be done before fueling? \_\_\_\_\_
  - 2. PPE for checking electrolyte levels? \_\_\_\_\_
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## 8 – Machine Stability

Even small slopes can become dangerous when elevated.

**Rise ÷ Run × 100 = Grade %**

Example: 1 ft rise / 12 ft run = 8.3 % grade.

- Operate only within manufacturer’s slope limits.
- Travel with platform fully lowered when possible.

### **Scenario**

The lift tilts slightly while traveling across uneven ground.

> What are your immediate actions? \_\_\_\_\_

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## 9 – Shutdown & Unattended Lifts

Before leaving the equipment:

- Lower platform to ground.
- Controls in neutral; engine off.
- Set parking brake and remove key.
- Clean platform and secure tools.
- If elevated overnight → **barricade & tag “Out of Service.”**



- ✦ **Quick Check** 1. What tag is required for an elevated lift? \_\_\_\_\_  
2. Why remove the key? \_\_\_\_\_
- 

## 10 – Review & Reflection

### Key Takeaways

- Two MEWP Groups: A (scissor) and B (boom).
- 10 ft minimum clearance from power lines.
- Perform daily inspections and document results.
- Use proper fall protection every time.
- Lower and secure equipment when not in use.

### Reflection

List two safety behaviors you'll apply on your next job:

1. \_\_\_\_\_
2. \_\_\_\_\_

■ **Note:** A final written and practical evaluation will be administered by your instructor to complete certification requirements.

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## 11 – Emergency & Rescue Procedures

ANSI A92.22 §6.4.4 requires a written rescue plan.

### Rescue Options

1. Primary: Self-lowering or ground controls.
2. Secondary: Another trained person using ground controls.
3. Tertiary: Emergency services if others unavailable.



**Key Steps** - Maintain communication with ground personnel.

- Practice emergency descent procedures.
- Keep rescue equipment accessible and inspected.

 **Never allow an untrained person to attempt a rescue using controls.**

 **Knowledge Check**

What is your company's primary method for rescuing a stuck MEWP? \_\_\_\_\_

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## 12 – Occupant Safety Awareness

Occupants inside the platform must understand: - Proper use of fall protection and anchors.

- Location of emergency stop and descent controls.
- Hazards of electricity, tip-over, and falling objects.
- Communication signals with operator or spotter.

 **Quick Check 1.** Who should operate emergency descent controls if the operator is incapacitated? \_\_\_\_\_

2. Name one hazard occupants must be aware of. \_\_\_\_\_

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## 13 – Training Records & Retraining

Per **ANSI A92.24 §7.5** and **OSHA 1926.454(c)**:

**Training records must include:**

- Operator name
- Trainer name
- Date of training
- Equipment type and model
- Evaluation result (pass/fail)

**Retention:** Keep records  $\geq$  4 years.

**Retraining Required When:**

- Unsafe operation is observed
- Equipment type changes
- Job-site conditions change
- Every 3 years (minimum)



✦ **Activity** List two examples that would trigger retraining for you:

1. \_\_\_\_\_
2. \_\_\_\_\_

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## Completion Record

I certify that I have completed this workbook and understand the operational and safety requirements for MEWPs under OSHA 1926.453 and ANSI A92.22 / A92.24.

**Trainee Name:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**Trainer/Instructor:** \_\_\_\_\_

**Equipment Type:** \_\_\_\_\_

**Signature:** \_\_\_\_\_

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