



**Northern Illinois
University**

Mobile Elevating Work Platform Safety Program

Northern Illinois University

Environmental Health and Safety
8/21/2020

Review and Updates

Date	Reviewed by	Changes Made
7/20/15	Mary Schlagel	Updated EH&S duties.
5/26/16	Mary Schlagel	Updated Daily Aerial Lift Safety Checklist.
7/6/16	Mary Schlagel	Updated Responsibilities section.
7/17/17	Mary Schlagel	Updated Responsibilities, Inspection & Operator Training sections
12/10/18	Mary Schlagel	Updated Responsibilities, Inspection of Lifts, Training sections and Inspection Checklist form
7/18/19	Mary Schlagel	Title change. Multiple changes related to new ANSI A92 standard.
8/21/2020	Mary Schlagel	Changes related to new ANSI A92 standard. Update to Pre-Operation Checklist.

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Purpose

The purpose of the Mobile Elevating Work Platform Program (“Program”) is to establish procedures for the safe operation of mobile elevating work platforms used on NIU property as well as to ensure compliance with applicable safety standards.

Applicable Regulations and Standards

- NIU Health and Safety Policy
- Facilities Management and Campus Services EH&S Policy
- 56 IL Admin Code Part 350 Health and Safety Code
- OSHA 29 CFR 1910.66 (Powered Platforms for Building Maintenance)
- OSHA 29 CFR 1910.67 (Vehicle Mounted Elevating and Rotating Work Platforms)
- OSHA 29 CFR 1910.68 (Man-lifts)
- OSHA 29 CFR 1926.20 (General Safety & Health Provisions)
- OSHA 29 CFR 1926.21 (Safety Training and Education)
- OSHA 29 CFR 1926.451 (General Requirements)
- OSHA 29 CFR 1926.453 (Aerial Lifts)
- ANSI A92-2018 (Mobile Elevating Work Platforms)
- ANSI A92.20-2020 (Design, Calculations, Safety Requirements and Test Methods for Mobile Elevating Work Platforms)
- ANSI A92.22-2020 (Safe Use of Mobile Elevating Work Platforms)
- ANSI A92.24-2018 (Training Requirements for Use, Operation, Inspection, Testing and Maintenance of Mobile Elevating Work Platforms)
- ANSI/ISEA 121-2018 (Dropped Object Prevention Solutions)

Scope

This program applies to all powered or manually operated personnel lifting equipment operated by NIU personnel or contractors on campus property. These machines, known as mobile elevating work platforms (MEWPs) are categorized as follows:

Groups

- Group A – A MEWP that moves vertically but within tipping lines, such as a scissor lift.
- Group B – A MEWP that can move beyond the tipping lines (wheels or outriggers), such as a boomlift.

Types

- Type 1 – Machine can only be driven with the platform in the stored position.
- Type 2 – Machine can be driven elevated but is controlled from the chassis.
- Type 3 – Machine can be driven elevated and is controlled from the work platform.

Responsibilities

Environmental Health and Safety Department (EH&S)

- Perform an annual review and update of the Program as needed.
- Coordinate and schedule training.
- Provide guidance and technical support as needed.
- Audit affected departments periodically for compliance.

Department Supervisors/Foremen

- Read and comply with this Program.
- Participate in MEWP supervisor safety training.
- Ensure MEWPs assigned to the department are properly inspected, tested and maintained in accordance with manufacturer requirements and applicable safety regulations.
- Maintain records of lift inspection, testing, maintenance and repairs.
- Ensure operators receive appropriate training as needed.
- Ensure operators and occupants of boom and/or bucket truck MEWPs are trained in fall protection and use appropriate fall protection equipment.
- Assign or arrange for a trained operator to be on the ground monitoring the work and available to lower the work platform in the event of an emergency where the operator cannot.
- Maintain records of operator training. This includes record of makes & models of MEWPs on which the operator was trained.
- Ensure operators are provided with specific familiarization for each model of MEWP assigned.
- Ensure operators complete the Aerial Lift Pre Operation Inspection Checklist before operating the lift. (See Appendix A or EH&S website for form.)
- For battery-powered MEWPS, ensure appropriate personal protective equipment (PPE), emergency safety shower and fire extinguisher equipment located adjacent to the battery charging station are properly maintained.
- Observe the operation of MEWPs and correct unsafe behaviors and practices of operators.
- Verify with rental company that MEWP has been inspected, tested and maintained and is safe for use before renting.

Operators

- Read and comply with this Program.
- Receive operator safety training.
- Receive fall protection training if operating boom and/or bucket trucks.
- Read operating manual and safety procedures of the MEWP to be used.
- Understand the safe operation of the MEWP assigned for use.
- Complete the Aerial Lift Pre-Operation Inspection Checklist (See Appendix A or form in EH&S website) before operating any MEWP.
- Train fellow occupants of the work platform on how to operate the controls of the MEWP in an emergency where the operator cannot.
- Train fellow occupants on how to work safely on work platform.
- Tag MEWPs that do not pass daily inspection (as Unsafe, Contributing to Unsafe Conditions or In Need of Repair) using the “Out of Service” form provided in Appendix B. Report any deficiencies or need for repairs to the supervisor.
- Do not use equipment that has failed inspection or has an “Out of Service” tag affixed to it for any reason until it has been repaired and returned to service.
- Observe the operation of MEWPs by others and report unsafe practices, problems or malfunctions to the supervisor.

- If using a battery-powered MEWP, charge battery at its designated charging station after operating lift. Don proper PPE (safety glasses, face shield, long sleeves, chemical apron, chemical gloves) when inspecting the cells or adding electrolyte or water to the battery.

Occupants

- Receive training on how to work safely on the work platform to be used.
- Receive training on how to operate the MEWP's controls in an emergency where the operator cannot.
- Receive training on what to do if they fall and await rescue or witness another worker's fall.
- Receive site specific instructions to follow related to operation of the MEWP.
- Receive information on the hazards related to the task and how to avoid them.
- Receive instruction regarding manufacturer's instructions and warnings.

Contractors

Contractors are expected to provide their own MEWPs when working on NIU property. The NIU project manager and/or the department coordinating the contractor work must provide written approval to the contractor in the event there is a need to deviate from this practice. Contractor employees are allowed to use MEWPs owned by NIU as long as the lift is operated by an NIU trained operator. The contractor is expected to provide all appropriate MEWP and fall protection training as well as personal fall arrest equipment for contractor employees. Such training documentation is to be provided to the NIU project manager or department coordinating the contractor work prior to the work.

Maintenance and Repair of MEWPs

Only third-party qualified service technicians certified by the manufacturer on the particular makes and models of MEWPs shall service, maintain and repair this equipment. This is to be done in accordance with applicable OSHA and ANSI Standards and manufacturer's requirements. Modifying lifts is prohibited unless performed in accordance with applicable requirements outlined in ANSI standards and OSHA regulations.

Inspection of MEWPs

Annual Safety Inspections

MEWPs shall be inspected annually by a third-party qualified service technician certified by the manufacturer to work on that make and model. When a lift passes inspection, the technician shall affix a label noting the date of the inspection and place it on a conspicuous location on the MEWP. A record of the inspection shall be kept on file by the department owning the equipment.

Inspection Prior to Use

Before using a MEWP the operator shall inspect the lift for damage and defects which may affect the safe operation of the lift. Inspections must include, but not limited to, the following:

- Bent or broken structural members
- Cracked welds
- Hydraulic, pneumatic or fuel leaks
- Damaged controls, cables and wiring harness
- Loose wires
- Poor condition of tires or wheels

- Absence or damage to outriggers, stabilizers and other structures
- Absence of a guardrail system
- Low electrolyte levels in accessible batteries
- Slippery conditions on the work platform
- Other items specified by the manufacturer.

The MEWP Pre-Operation Inspection Checklist form is found in Appendix A and also on the EH&S website under Forms. Operators are required to complete a copy of the form prior to using a lift. Operators must review the operating instructions and safety procedures before using the lift. (If the manual is absent inform the supervisor so a replacement manual can be ordered.)

Any defect or deficiency shall be reported to the supervisor and the head of the department owning the lift. The lift must be tagged ‘out of service’ (See Appendix B for sign) and kept out of service until the lift is evaluated and appropriate repairs have been made. The department owning the lift shall keep a record of repairs and safety inspections for each lift in its inventory.

Training

Operator Training

Prior to using a lift, operators must receive training which includes both classroom instruction and a ‘hands-on’ exercise. Training shall consist of the following:

- Proper selection of MEWP for the work.
- Rules, regulations and standards regarding MEWPs.
- Potential hazards associated with the use of MEWPS and means to protect against hazards.
- Importance of maintaining the operating manual and storing it properly in a weather resistant compartment on the equipment.
- Factors on how their actions could affect stability.
- Hazards related to the site and task and how to avoid such hazards.
- Manufacturer’s instructions and warnings.
- Performing a workplace risk assessment including rescue planning.
- “Hands-on” training on the types of MEWPs they will be operating.

An operator may be sent for remedial training if:

- The operator is observed using a lift unsafely.
- The operator is involved in an accident or near miss.
- The operator’s evaluation indicates a need for additional training and/or practice.

Operator training records shall be maintained in the operator’s department. Records shall include:

- Name of individual trained
- Subject of training (operator or train-the-trainer)
- Date of training
- Name of trainer
- List of the makes and models on which the operator has received familiarization.

Occupant Training

Operators are required to train fellow occupants of a work platform prior to starting work in a MEWP. This training is to consist of:

- Instruction on how to operate the MEWP's controls in an emergency where the operator cannot.
- Instruction on how to work safely on the work platform.
- The use of fall protection, including what to do if the occupant falls and awaits rescue or witnesses another worker's fall.

Supervisor Training

Supervisors are to receive the same classroom MEWP safety training as operators, but not the hands-on portion of the class. Training includes but is not limited to:

- The proper selection of MEWP for the work,
- Rules, regulations and standards regarding MEWPs,
- Potential hazards associated with the use of MEWPS,
- Means to protect against such hazards,
- The importance of maintaining the operating manual and storing it properly in a weather resistant compartment on the equipment,
- The evaluation of work sites for safety hazards, and
- Rescue plans.

Safe Work Practices

Pre-Lift Operation

- Inspect the lift from the ground. Test operations. (Use the Mobile Elevating Work Platform Pre-Operation Inspection Checklist. See Appendix A.)
- Inspect work area and route to work area.
 - Group A, Type 1 (single man lifts, push-around stock picker) - Ensure that outriggers (if so equipped) are in a stowed position for moving and deploy them when in proper position for work. Stow them before moving the lift.
 - Group A, Type 3 (electric scissor lifts, drivable stock picker) - If the lift is designed to be driven from work site to work site it shall be done with the platform low to the ground.
 - Group B, Type 3 (boom lifts) - Retract boom but keep platform high enough for the operator to see over the drive platform so to observe traffic or pedestrians in the path of travel.
- Guardrails must be in place and access gates or gaps must be closed before raising the platform.
- Boom and platform load limits specified by manufacturer shall not be exceeded.

Post-Lift Operation

- Position lift in a suitable parking area with the basket in the stowed position, controls placed in neutral, engine idling for gradual cooling. Turn off all power. Take necessary steps to prevent unauthorized use.

Shut off power prior to fueling. Fueling must be done in a well-ventilated area free of flame, sparks, electric arcs or other hazards that may cause fires or explosions. Follow proper recharging procedure for electrically powered MEWPs.

Site Hazard Assessment and Rescue Plan

The risks associated with MEWP operations must be identified prior to using a MEWP. These are related to the location where the work is to be carried out, getting the MEWP to that location, the nature of the MEWP, personnel, materials and/or equipment to be transported.

It is necessary to identify hazard control measures, safe work procedures, rescue from height, and communication with others working in or near the worksite. The form in Appendix C should be completed and retained on-site until completion of the work. The completed form shall be returned to the supervisor and retained on file for compliance purposes.

Work Area Inspection

Areas where MEWPs are scheduled for use shall be inspected prior to operating a MEWP and rechecked during use. The operator shall examine the work area for possible hazards, including but not limited to:

- Slopes, holes, drop-offs, trenches, pits or other leading edges.
- Soft soils, particularly near creeks, streams, ponds or lagoons.
- Ground or floor obstructions, such as bumps, debris, tools, other lifts or other equipment.
- Inadequate height and width clearances for the platform and chassis.
- Inadequate surface and support to withstand all load forces imposed by the MEWPs.
- Wind and weather conditions (winds in excess of 20 mph, lightning, audible thunder, weather warnings, snow obscuring view of ground condition, ice).
- Presence of unauthorized pedestrians in work area.
- Protecting bystanders by placing barricades around worksite, posting another employee to keep bystanders at a safe distance or other effective means to isolate the work area from pedestrian and motor traffic.
- Observing wind speeds and/or anticipated gusts. At 20 mph the work platform or basket shall be lowered to a height of no more than 20 feet. At 25 mph the work platform or basket shall be grounded. If there is thunder or lightning, bring the basket all the way down and get the crew to safe shelter until the storm has passed. Wait for a minimum of one-half hour after the last rumble of thunder to avoid chance of lightning strike before resuming work.
- Pay particular attention to overhead obstructions, electrical lines and other electrical hazards.

Lift Operation

- When driving boom lifts, raise basket to a height sufficient for the operator to see over the lift's drive platform and observe any pedestrians or possible obstructions in the path of travel.
- Pay attention to direction of travel and clearances above, below and to all sides of lift.
- While driving pay attention to road hazards such as potholes, obstacles in road, uneven or soft surfaces.
- Limit the speed of MEWPs, taking into account ground surface conditions, visibility, slope, congestion, location of personnel and other factors that may cause hazards to other people nearby.
- Limit the distance the MEWP must travel. Certain MEWPs are designed to be transported rather than driven to a worksite. Such MEWPs have been known to seize up after a certain amount of time travelling. Take this into account when preparing the site assessment and safety plan.

- MEWP shall not be operated on grades, side slopes or ramps that exceed manufacturer's recommendations.
- Once in position, brakes shall be set and outriggers, if used, shall be positioned on pads or solid surfaces. When working on an incline, wheel chocks must be in place before using the lift.
- Do not sit or climb on guard rails.
- Operator's equipment must be secured inside the work basket, preferably tethered to prevent hazard of dropped objects.
- Ladders or any other equipment or device intended to gain further height shall not be used in or on the MEWP.
- Do not exceed load limits posted on lift. Load limit total includes the weight of the operator, any other occupants and tools or equipment present in the platform or basket.
- Occupancy limits shall not be exceeded.
- Do not move MEWP across the ground while boom is extended.
- MEWP shall not be used as a crane.
- The basket or work platform shall not be rested against another object (building, pole, tree, etc.) to steady the elevated platform. (Hydraulic pressure will decrease, and the basket will suddenly drop several feet when moved.)
- Horseplay and stunt driving shall not be tolerated.
- Operators shall call for assistance if the basket or any part of the machine becomes entangled.
- In the event of a mechanical failure, operators and occupants shall not attempt to climb out of the basket or platform or climb down the boom. Ground controls can be used by another trained operator with the stranded operator's permission or the trained occupant can lower the platform. Permission is implied if the operator is unconscious.

Post Lift Operation

Follow post operation procedures listed above.

Rescue Plan

It is required that work platform occupants receive training in what to do in the event of MEWP breakdown, entanglement or fall from the platform by themselves or another employee. This must be part of a written plan.

Rescue plans are to include:

- Self-rescue—by the person involved.
- Assisted rescue—by others in the work area.
- Technical rescue—by emergency services.

To limit suspension trauma, the time that a properly restrained worker hangs suspended in air is to be no more than 10 minutes. Serious suspension injury occurs within 15 to 20 minutes. (See Appendix C.)

HARNESSES SUSPENSION TRAUMA

BODY MALFUNCTIONS AFTER A FALL ARREST



Brains

- Oxygen deprivation of the brain may lead to fainting and eventual death.



Heart:

- Drop in blood return to the heart.
- Oxygen supply to the brain and other vital organs is reduced.



Legs:

- Femoral veins compressed by harness leg straps.
- Skeletal muscle pumps in legs are less active or completely inactive.
- This causes blood to pool in the victim's legs.



Battery Charging Operations

For battery powered MEWPS, a designated area for battery charging must be established with PPE kept on site. The area must be free of ignition sources. These could ignite the hydrogen gas coming off a battery with insufficient electrolyte.

There must be facilities for flushing and neutralizing spilled electrolyte, fire protection and adequate ventilation for dispersal of vapors arising from dry and gassing batteries and collision prevention/protection for the charging apparatus. Dry batteries get hot and can splash acidic electrolyte when being filled.

Operators must don PPE prior to adding water or electrolyte to the battery cells or connecting batteries for charging. Proper PPE includes face shield, long sleeves, rubber boots, aprons and gloves.

Rented Lifts

NIU occasionally rents MEWPs to facilitate department operations. It is the responsibility of the NIU MEWP operator to inspect the MEWP before accepting it from the rental company. If the operator finds the renter's MEWP does not pass the same standard inspection used for NIU-owned MEWPs the operator has the right to reject the MEWP and must immediately inform the supervisor.

If not trained on the particular make and model of the MEWP being rented, operators must familiarize themselves with the MEWP before using it for work. Once familiarized, the supervisor shall record the make and model of the MEWP in the operator's training file.

Appendix A

Mobile Elevating Work Platform Pre-Operation Inspection Checklist

Signature of Operator Performing the Inspection: _____ Date: _____

Number	Inspection Area	PASS	FAIL	Comments
1	Fluids: Check fluids for proper levels: Fuel, oil, hydraulic, coolant, etc. Are there any leaks?			
2	Battery: Is fluid level to manufacturer's specification? (Dry batteries can explode!) Are there any sign of leaks, corrosion or grease? Is battery charged? Are the connections tight?			
3	Tires and Wheels: Check condition. Are the treads worn? Do tires have cuts, tears, gouges or dry rot? Are they inflated to proper pressure? Do wheels show damage or corrosion?			
4	Work Platform: Are the guardrails present and in good condition? Is the gate or entry chain present and in good condition? Does it open and close properly?			
5	Safety and Warning Devices: Are control labels, decals and warnings present and readable? Test warning devices-alarms, horns, beacons, level indicator, lights, etc. Inspect outriggers, electrical components, cables and wires.			
6	Start and check engine and lifting devices for proper operation. Raise and lower platform using ground controls. Inspect boom, wear pads & electrical harnesses where present.			
7	Structural damage: Is there any evidence of damage such as cracked welds or structure, bends, breaks, frayed wires, corrosion or loose parts?			
8	For boomlifts: rotate turret, test foot switch, extend and retract outriggers. Test emergency down function.			
9	Board the lift, start engine. Do controls function normally? Do the brakes work?			
10	Are any parts missing? Are fasteners and pins in place? Is fuel cap on securely?			

REMARKS: (Items needing repair or adjustments) _____

OCCUPANT TRAINING If there is to be an occupant on the work platform with the operator, **the operator must train the occupant how to lower the platform** in the event the operator is incapacitated.

CAUTION: Any time an aerial lift is found to be unsafe, contributing to unsafe conditions or in need of maintenance or repair it must be removed from service and the supervisor notified. Any checkmark in the FAIL category puts unit out of service and reportable unless the operator can safely address all deficiencies during the pre-operation inspection.

Appendix B



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OUT OF SERVICE

**Equipment is unsafe for use. Please contact
the department owning this equipment
for more information.**

Appendix C



Northern Illinois University

Site Hazard Assessment and Rescue Plan Form

Department	Site Location
Job Task	
Job Location/Description/Must MEWP be transported to worksite?	

Timing When does the work need to be finished?

Are there days or hours of the day where work cannot be done? (Example: scheduling conflicts, interference with other University activities, etc.)

Select appropriate MEWP for the work. (Check one) Personnel lift Scissor lift Boom lift

Plan prepared by	Date
------------------	------

- Workers must review and sign this plan prior to starting work. Workers must understand this plan and be trained in fall protection and the systems and equipment that will be used.
- This plan must be posted at the worksite for the duration of work activities.

1. Identify potential site hazards. (Check all that apply.)		
<input type="checkbox"/>	Wind	At 20 mph, lower platform to no more than 20 ft. At 25 mph, platform shall be grounded.
<input type="checkbox"/>	Thunder/Lightning	Ground platform immediately, get to cover, preferably indoors. Stay there 30 minutes past the last sound of thunder before resuming work
<input type="checkbox"/>	Ice	Slippage. May have to remove ice to bring the MEWP into the work area. Clear ice from the platform and all controls.
<input type="checkbox"/>	Slopes, ramps, grades, holes, drop offs, trenches, pits or other leading edges.	
<input type="checkbox"/>	Soft soils, particularly near creeks, streams, ponds, lagoons, etc.	
<input type="checkbox"/>	Underground features such as utility tunnels, storm basins or grate-covered pits.	

<input type="checkbox"/>	Inadequate surface to withstand all load forces imposed by MEWP.		
<input type="checkbox"/>	Ground or floor obstructions—bumps, debris, tools, other equipment		
<input type="checkbox"/>	Overhead power lines		
<input type="checkbox"/>	Overhead obstructions (I-beams, catwalks, light pole arms, pendant lights, etc.)		
<input type="checkbox"/>	Overhead obstructions (I-beams, catwalks, light pole arms, pendant lights, etc.)		
<input type="checkbox"/>	Inadequate height or width clearance for work and drive platforms.		
<input type="checkbox"/>	Limit speed in traffic. Sudden bumps put operator in danger of ejection.		
<input type="checkbox"/>	Do not exceed manufacturer’s recommendations for operation of MEWP on slopes, grades, ramps, etc.		
<input type="checkbox"/>	Stay within MEWP ratings for load limits. These are posted on the MEWP. Load limits include weight of operator, occupants and any tools or equipment to be on the work platform.		
<input type="checkbox"/>	Stay within occupancy limits.		
<input type="checkbox"/>	Secure tools and equipment inside work platform or basket. Tether where possible.		
<input type="checkbox"/>	Once MEWP is in place, set brakes and deploy outriggers.		
<input type="checkbox"/>	On an incline, chock wheels before using lift.		
<input type="checkbox"/>	Work platform or basket gates must be closed.		
<input type="checkbox"/>	Are contractor employees working in or near the worksite?		Inform them of MEWP work.
<input type="checkbox"/>	Put up barriers or post a worker to keep pedestrians and vehicular traffic out of work area (particularly under extended boom).		
<input type="checkbox"/>	No ladders or devices intended to gain height are to be used on the work platform.		
<input type="checkbox"/>	No sitting or standing on guard rails. Keep both feet on the work platform.		
<input type="checkbox"/>	MEWP shall not be used as a crane.		

<input type="checkbox"/>	Do not move MEWP along the ground when boom is extended or platform raised.		Lower the platform, move the MEWP then raise platform when in new position.
2. Identify control measures, procedures and measures required to control hazards and risks.			
3. Identify safe work procedures, including contingencies.			
<input type="checkbox"/>	Correct PPE		
<input type="checkbox"/>	Ensure understanding of fall restraint and arrest systems		
<input type="checkbox"/>	Proper training for Operators		
<input type="checkbox"/>	Proper training for Occupants		Name of Operator Trainer:
<input type="checkbox"/>	Proper training for Supervisors		
<input type="checkbox"/>	Proper training for Maintenance personnel		
<input type="checkbox"/>	Training for emergencies		
<input type="checkbox"/>	Authorization to use MEWP on this job		Authorized by:
<input type="checkbox"/>	Supervisor monitors MEWP use to ensure safety plan is followed.		
<input type="checkbox"/>	MEWP maintenance is conducted in line with manufacturer's requirements.		
4. Identify methods to keep vehicles and pedestrians out of work area and overhead protection for workers who may be in, or pass through the area below worksite.			
<input type="checkbox"/>	Hard hats required	<input type="checkbox"/>	Barricades
<input type="checkbox"/>	Warning signs	<input type="checkbox"/>	Traffic control cones
<input type="checkbox"/>	Secure large tools	<input type="checkbox"/>	Other:
<input type="checkbox"/>	Tool belts	<input type="checkbox"/>	Other:
<input type="checkbox"/>	Tool lanyards	<input type="checkbox"/>	Other:
<input type="checkbox"/> Mobile Elevating Work Platform RESCUE PLAN			
<p>Operators and occupants of Mobile Elevating Work Platforms (MEWP) shall not get out of MEWP work platform/bucket when boom is raised and/or extended. Exceptions are when the MEWP is used:</p> <ul style="list-style-type: none"> To provide access to roofs or platforms at altitude (example: stadium light towers) To access air handlers on mezzanine at Evans Fieldhouse. 			

In such cases use fall protection equipment for fall restraint (safety harness and lanyard of sufficient length to keep wearer in the work platform/basket) and two-legged lanyard for transfer from work platform or bucket to another raised surface.

Those using vertical lifts and scissorlifts are not required to wear fall protection equipment unless it is their department's policy is to do so.

Self-Rescue

At present NIU does not have the equipment for self-rescue. This makes it important to have a trained operator on the ground or an occupant in the MEWP trained to lower the work platform to the ground in the event of a fall or other medical emergency.

Assisted Rescue

Others may assist the operator and any occupants of a MEWP stranded at altitude. The primary ones are the occupant trained to lower the work platform and a trained operator at the ground controls. It is possible bystanders may help in a rescue.

Technical rescue

The DeKalb Fire Department technical rescue team would effect difficult or complicated rescues. Paramedics may be required.

Types of Rescues Related to MEWPs

- Fall from height, unrestrained
- Fall from height, restrained
- Witnessing an employee fall from MEWP
- Tip-over, worker or witness
- Tip-over, workers ejected from work platform
- Ejection from moving MEWP
- Electric shock
- Work platform entanglement

Rescue Plan for Worker Fallen from Height Unrestrained

Fallen Worker: If conscious, call out for help. Unless you are in danger of being injured in some further way, stay down. You can aggravate injuries by moving.

Any observer: CALL 911 immediately. Tell the dispatcher a person has fallen from an aerial lift and needs assistance.

Ground Operator or Occupant: Bring work platform down immediately. CALL 911, then call supervisor. Remain at scene to provide pertinent information to first responders and supervisor.

Rescue Plan for Worker Fallen from Height Restrained

VERY IMPORTANT: Serious injury from suspension trauma can occur in 15 to 20 minutes. It is important to get the suspended worker down as quickly as possible. Act immediately upon an arrested fall so employee does not hang any more than 10 minutes.

Fallen Worker: If conscious and mobile, call out for help. Deploy suspension trauma relief strap attached to safety harness. Put feet halfway into loops and stand in the loops. This will help take pressure off the legs and keep blood flowing to them while you await rescue.

If you can access your cell phone, CALL 911. Tell the dispatcher you are hanging in a safety harness and need help to get down.

Talk with ground assistance. This helps them monitor your condition. Cooperate with technical rescue and paramedics. If they tell you to lie down, lie down. Your life could depend on it. Fall with suspension is a serious event. You will be transported to a hospital to be checked out.

When you are able, tell the first responders and supervisor what happened.

Any observer: CALL 911 immediately. Tell the dispatcher a person has fallen from an aerial lift, is hanging in a safety harness and needs assistance.

Ground Operator or Occupant: Carefully bring work platform down enough to allow fallen employee to lie down. CALL 911, then call supervisor. Render assistance, detaching the lanyard, but keep worker lying down. Remain at scene to provide pertinent information to first responders and supervisor.

Rescue Plan – Witnessed Worker Fall from Height, Unrestrained

- CALL 911 immediately. Tell the dispatcher a person has fallen from an aerial lift and needs assistance. If worker's supervisor is known to you, contact the supervisor.
- Stay with the fallen worker until help arrives. Render what aid you can without aggravating injuries.
- Provide pertinent information to first responders and supervisor.

Rescue Plan -- Witnessed Worker Fall from Height, Restrained

VERY IMPORTANT: Serious injury from suspension trauma can occur in 15 to 20 minutes. It is important to get the suspended worker down as quickly as possible. Act immediately upon an arrested fall so employee does not hang any more than 10 minutes.

Any observer:

- CALL 911 immediately. Tell the dispatcher a person has fallen from an aerial lift and needs assistance. If worker's supervisor is known to you, contact the supervisor.
- Stay with the fallen worker until help arrives. Talk with the fallen worker. It is a way of monitoring the person's condition.
- Provide pertinent information to first responders and supervisor.

Rescue Plan – MEWP Tipped Over

Witness or worker: CALL 911. Tell dispatcher an aerial lift has tipped over and there are people aboard that need assistance. Technical Rescue will be needed to stabilize the MEWP and extract the worker(s).

Workers on MEWP: Do not attempt to climb down the tipped (but not fallen) MEWP. That could make the situation worse.

Once on the ground the MEWP worker(s) will need to be checked by the paramedics. Depending on their injuries the workers may be transported to a hospital.

Rescue Plan – MEWP Tipped Over and Workers Ejected

Any observer:

- CALL 911 immediately. Tell the dispatcher a person has fallen from an aerial lift and needs assistance. If worker's supervisor is known to you, contact the supervisor.
- Stay with the fallen worker until help arrives. Render what aid you can without aggravating injuries. Talk with the fallen worker. It is a way of monitoring the person's condition.
- Provide pertinent information to first responders and supervisor.

Rescue Plan –Workers Ejected from Moving MEWP, Restrained

Boomlift operators and occupants can be ejected from a moving MEWP when it hits a dip, bump or pothole. For this reason they wear fall restraint—safety harness with a lanyard short enough to keep them in the platform or bucket. If thrown from the bucket they would hang just outside the platform or bucket.

Fallen worker: Try to self-rescue. Otherwise, hang on while boom is lowered.

Ground operator: If the boom is raised, lower it. Render assistance to free the fallen worker. Contact supervisor. Stay with fallen worker. Provide pertinent information to supervisor. It may be necessary to transport the person to a hospital.

Rescue Plan –Workers Ejected from Moving MEWP, Unrestrained

Any observer:

- CALL 911 immediately. Tell the dispatcher a person has fallen from an aerial lift and needs assistance. If worker’s supervisor is known to you, contact the supervisor.
- Stay with the fallen worker until help arrives. Render what aid you can without aggravating injuries. Talk with the fallen worker. It is a way of monitoring the person’s condition.
- Provide pertinent information to first responders and supervisor.

Rescue Plan –MEWP Electrified

Electric shock hazard!

If a MEWP contacts power lines, bus bars, etc. the unit may become electrified.

Witness or worker: CALL 911. Tell dispatcher an aerial lift has come in contact with (identify source of electricity) and is electrified. Include the information that there are people on the lift. If known, contact the supervisor. Stay on scene but at a safe distance. Provide pertinent information to first responders and supervisor.

Technical Rescue will be needed. They may bring in the power utility to cut the electricity to the MEWP.

Ground Operator: Electrification may have damaged the MEWPs controls. Once it is safe to do so, lower the work platform or bucket manually.

Once on the ground the MEWP worker(s) will need to be checked by the paramedics. Depending on their injuries the workers may need to be transported to a hospital.

Rescue Plan –MEWP Entanglement

This can become a complicated rescue. Workers must be removed from the MEWP before attempting to free the platform or bucket. Technical Rescue may be needed.

Worker on MEWP: Stay calm. If possible, contact supervisor. Follow supervisor and Technical Rescue instructions. Workers will be removed from the MEWP before attempts can be made to free the platform or bucket.

Witness or worker: CALL 911. Tell dispatcher an aerial lift has become entangled and workers on it cannot get down safely. If known, contact the supervisor. Stay on scene but at a safe distance. Provide pertinent information to first responders and supervisor.

Ground Operator: Contact supervisor. Cooperate with supervisor and Technical Rescue to assist in bringing the work platform or bucket down.

<input type="checkbox"/>	Methods of Communication with Worker(s): Cell Phone Numbers 1) 2) Supervisor:	On-Site Attendants
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	On-Site Attendant:		
	Injured Employee:		
<input type="checkbox"/>	Obstructions that may impede rescue?		
Name/title of Competent Person who provided training under this plan		If administrative controls: Name of department manager	
Site Hazard Assessment and Rescue Plan approval(s)			
Name of lead worker or supervisor:			
Name			
Name			
Name			