

ACCESS FEDERATION



MEWP accident investigations Andrew Delahunt Director Technical & Safety July 2018

MEWP Accident Report



When an accident occurs...

How do we - communicate

- report - learn

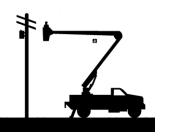


MEWP Accident Report



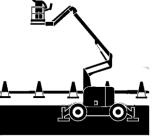
What do we know about accidents





Loading/Unloading Working near powerlines





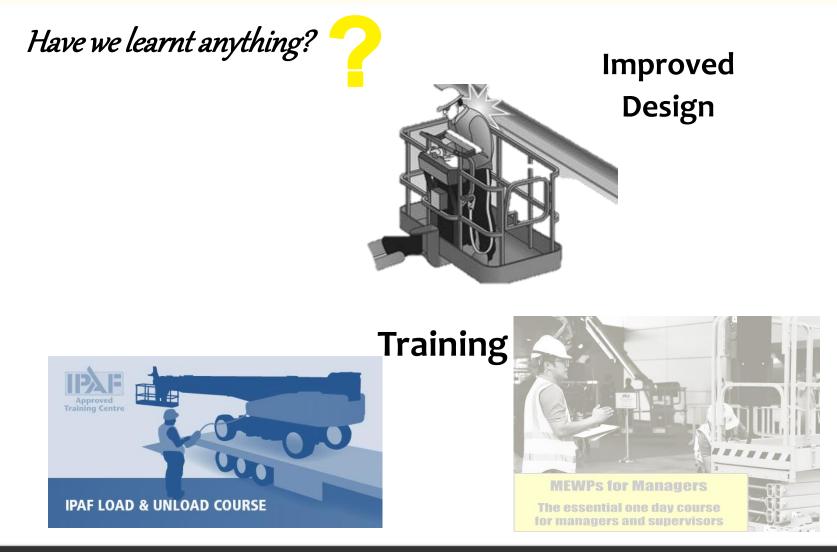
Working near roadways Operation

Operator conduct

Fall From height Electrocution Common MEWP fatalities -> Overturn Entrapment Hit by vehicle or object Mechanical

MEWP Accident Report





MEWP accidents in ASIA



What is the role of Asia?



BOOMING MEWPS

Large Fleet Robust Regulations Strong Industry



Safety culture but there are still barriers

How to improve ?



Incident investigation method

- 1. Communicate
- 2. First Response
- 3. Rescue Hierarchy
- 4. Inspect the MEWP and worksite
- 5. Root cause : 6 key items People / Environment / Machine/Training/Procedures/Management
- 6. Closure –> share the knowledge



Communicate

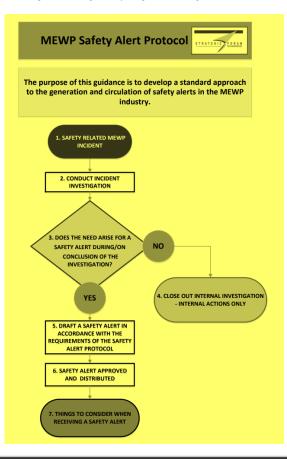
who needs to know? Owner, Manufacturer, Authority, IPAF

What do we do?

- Can I keep operating this machine?
- What about the rest of my fleet ?

Does it need a SAFETY ALERT?

MEWP Safety Alert Protocol https://www.ipaf.org/en/resourcelibrary/mewp-safety-alert-protocol





First response

PREPARATION

Have an incident plan

Know the lowering systems ground controls auxiliary system override

Consult the rescue hierarchy

Manufacturers instruction to retrieve platform

ACTION

Is the operator hurt

Is the worksite safe

Cordon the area and secure the MEWP

Check MEWP system records

Use the Rescue Hierarchy

Retrieve the platform



Is a Rescue required?

Follow the rescue hierarchy to safely retrieve platform



Check machine & warnings Use Auxiliary controls

Use primary ground controls

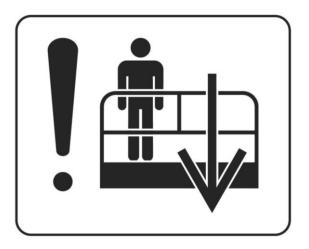
If operator is incapacitated - Use primary ground controls

> Assess operator conditions Wait for tech support

If unsafe to remain elevated

Consider basket to basket rescue

If rescue is required Consider controlled descent There is always a risk of becoming stranded..... Have a rescue plan!





Inspect the machine and worksite

PREPARATION

Checklist for Inspection Review specs

> Check machine specs, operator manual, inspection records

Hazards? machine condition? worksite protocols?

ACTION

Don't move the MEWP

Look up Look down Look around





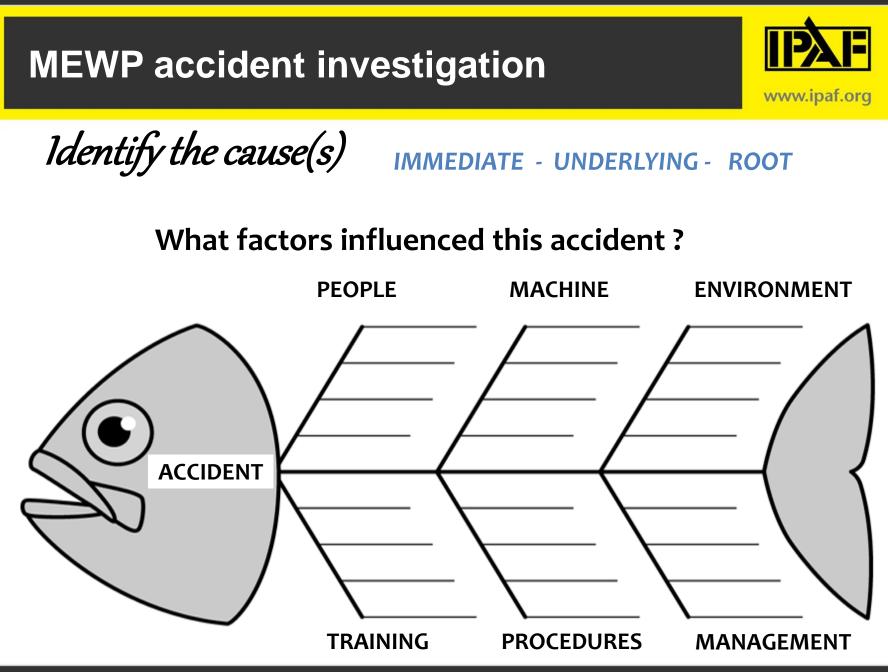
Identify the cause(s)

IMMEDIATE - UNDERLYING - ROOT



6 areas to consider

PEOPLE ENVIRONMENT MACHINE TRAINING PROCEDURES SUPERVISION





Closure

Learn and share!

What improvements need to be made to prevent future accidents?

Communicate back to the user and other interested parties

Communicate to your staff to instil safety changes



Case Study – overturn at Grand Prix

People – stored equipment in platform

Machine – elevated for storage overnight

Environment – Heavy storm with high winds

Drop protection (mesh/panels) Increase wind loading – needs approval.

Exclusion zone Keep area clear to eliminate hazard

Training – was operator trained? Familiarised ? Procedures – Equipment storage area? How to secure MEWPs?

Management – instructions to secure site Communication on safe use





Case Study - collision with banksman

People – Lack of communication between platform & ground Machine – inspected before use Maintained as required. Responsiveness acceptable

Environment – wet conditions



NO movement if the ground person is **not** visible!

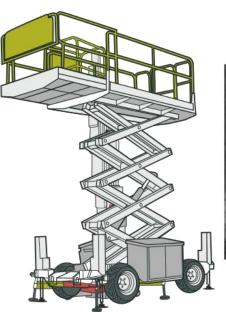
Training – operator trained Banksman not trained Procedures for banksman. For travelling on site

Management – No instructions from management



Case Study – poor maintenance

People – Who inspects? Who conducts maintenance?



Machine – Is there a service history? Where is it stored? What are the manufacturers instructions?

Environment - harsh operating conditions?



Inspection and maintenance is vital – see the new IPAF video

Training – Are staff trained on this model?

Procedure – Regular maintenance and inspections? Management – Who checks all maintenance has been

www.ipaf.org/accident

www.ipaf.org

Summary :

Report each accident and near miss to manufacturer and MEWP owner Report using IPAF's anonymous portal Use a thorough investigative model to identify all causes Communicate how we can prevent future accidents



MEWPs are safe Are you and your workers?

Thank-you