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ADB Health, Safety and Security (HSS)

Awareness Training Course



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HSS WORKSHOP FOCUS:



- **ADB - HSS**
- **Safety Culture**
- **Hazard Identification**
- **Life Saving Rules**
- **Risk Management**
- **HSS Good Practice Guide**
- **Safe Work Practices**
- **Incident Reporting & Investigation**
- **Emergency Preparedness**

**Fiji,
10-13 June 2024**



The International Labour Organization (ILO)

The main aims of the ILO are to promote rights at work, enhance social protection and strengthen dialogue on work-related issues.



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Occupational Injury and Disease Statistics

The ILO estimates:

Every year over 2.3 million women and men die at work from an occupational injury or disease.

Over 313 million workers are involved in non-fatal occupational accidents causing serious injuries and absences from work.

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Worksite Safety



Every ADB-supported project is unique and has a different range of hazards and risks.



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Activity

Serious Incidents



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Imagine the Headlines

An incident at work has wide-ranging impacts.

Tragic domino / ripple effect...



Imagine the Headlines...



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Imagine the Headlines...



Group Discussion:

What are your top 3-5 H&S risk scenarios... ?

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A large iceberg is shown floating in the ocean. The tip of the iceberg is above the water line, while the vast majority of the iceberg is submerged below the surface. The water is a deep blue, and the sky is a lighter blue with some clouds. The iceberg's submerged part is jagged and complex, contrasting with the smooth, pointed tip above water.

**WORK SAFE
STAY SAFE**

**SAFETY
CULTURE
IS LIKE
AN ICEBERG**

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 **WORK SAFE**
STAY SAFE

← **WHAT PEOPLE SEE**

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SayleGroup 
THE TRUSTED NAME

RISK MANAGEMENT
OPERATIONAL EXCELLENCE

**WORK SAFE
STAY SAFE**

BEHAVIOUR
KEY PERFORMANCE INDICATORS

WHAT LIES BENEATH

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**WORK SAFE
STAY SAFE**

BEHAVIOUR
KEY PERFORMANCE INDICATORS

PRACTICES

ATTITUDES

BELIEFS

**SAFETY CULTURE
STARTS HERE**

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**WORK SAFE
STAY SAFE**

BEHAVIOUR
KEY PERFORMANCE INDICATORS

SAFE WORK PRACTICES

LIFE SAVING RULES

SAFETY POLICY

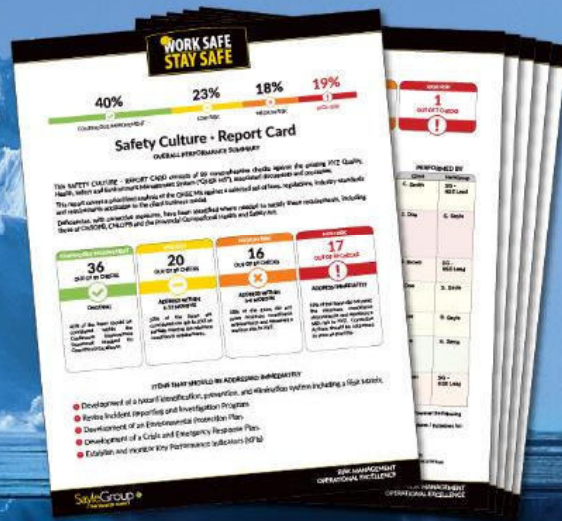
PRACTICES

ATTITUDES

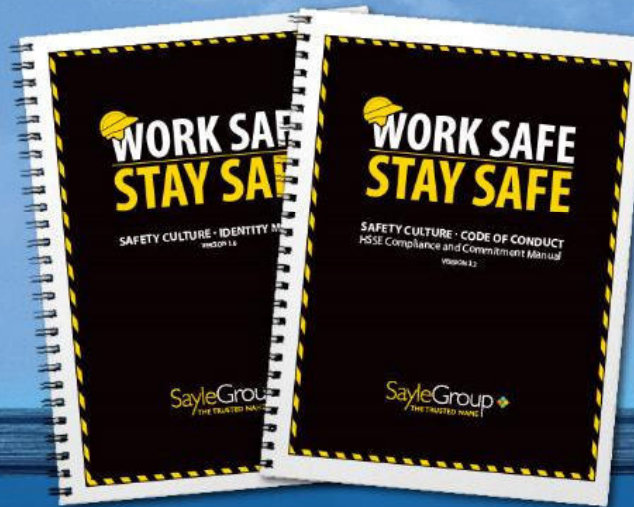
BELIEFS

**SAFETY CULTURE
STARTS HERE**

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ASSESS THE RISKS



DEFINE THE CULTURE



MAKE IT STICK

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Reactive KPIs :

- Fatalities
- Lost Time Incidents (LTI)
- Restricted Work Case (RWC)
- Medical Treatment Case (MTC)
- First Aid Case (FAC)
- Environmental Spill
- High Potential Near Miss
- Non-conformances



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Pro-active KPIs :

- Audits & Inspections
- Leadership Site Visits
- Behavioural Based Safety Observations & NM
- Safety Meetings (JOHSC, Management, etc.)
 - Job/Task/ Field Level Risk Assessments
 - Toolbox Talks
- Training & Certifications
- PTWs



Activity

Benefits of a Strong Safety Culture



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 **WORK SAFE
STAY SAFE**

BENEFITS OF A POSITIVE SAFETY CULTURE

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1 Reduction of Incidents

2 Fewer Injuries

3 Cost Savings

4 Lower Insurance Rates

5 Increased Productivity

6 Improved Public Relations

7 Improved Morale

8 Great Reputation

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Safety Culture is an Investment !

Businesses see an
**average return
of \$4 to \$6 for
every \$1**
invested into their
workplace safety
programs.

In the U.S. nearly
\$2 billion is lost
each year as a
result of worker
injury and harm to
health.

<https://www.osha.gov>

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An iceberg floating in the ocean. The tip of the iceberg is above the water line, while the vast majority of the iceberg is submerged below the surface. A white arrow points from the text 'KEY PERFORMANCE INDICATORS' to the tip of the iceberg.

**WORK SAFE
STAY SAFE**

BEHAVIOUR
KEY PERFORMANCE INDICATORS

Video: Safety Culture Overview

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Activity

Life-Saving Rules



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Life-Saving Rules



LSR online video summary:

https://www.youtube.com/watch?v=oK_p0Bogi6A

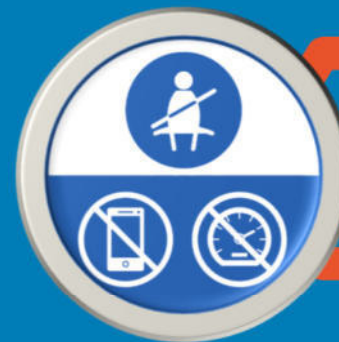




Bypassing Safety Controls



Confined Space



Driving



Energy Isolation



Hot Work



Line of Fire



Safe Mechanical Lifting












Work Authorization



Working at Height

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Life-Saving Rules

Bypassing Safety Controls <p>Obtain authorisation before overriding or disabling safety controls</p>  <ul style="list-style-type: none"> I understand and use safety-critical equipment and procedures which apply to my task I obtain authorisation before: <ul style="list-style-type: none"> disabling or overriding safety equipment deviating from procedures crossing a barrier 	Confined Space <p>Obtain authorisation before entering a confined space</p>  <ul style="list-style-type: none"> I confirm energy sources are isolated I confirm the atmosphere has been tested and is monitored I check and use my breathing apparatus when required I confirm there is an attendant standing by I confirm a rescue plan is in place I obtain authorisation to enter 	Driving <p>Follow safe driving rules</p>  <ul style="list-style-type: none"> I always wear a seatbelt I do not exceed the speed limit, and reduce my speed for road conditions I do not use phones or operate devices while driving I am fit, rested and fully alert while driving I follow journey management requirements
Energy Isolation <p>Verify isolation and zero energy before work begins</p>  <ul style="list-style-type: none"> I have identified all energy sources I confirm that hazardous energy sources have been isolated, locked, and tagged I have checked there is zero energy and tested for residual or stored energy 	Hot Work <p>Control flammables and ignition sources</p>  <ul style="list-style-type: none"> I identify and control ignition sources Before starting any hot work: <ul style="list-style-type: none"> I confirm flammable material has been removed or isolated I obtain authorisation Before starting hot work in a hazardous area I confirm: <ul style="list-style-type: none"> a gas test has been completed gas will be monitored continually 	Line of Fire <p>Keep yourself and others out of the line of fire</p>  <ul style="list-style-type: none"> I position myself to avoid: <ul style="list-style-type: none"> moving objects vehicles pressure releases dropped objects I establish and obey barriers and exclusion zones I take action to secure loose objects and report potential dropped objects
Safe Mechanical Lifting <p>Plan lifting operations and control the area</p>  <ul style="list-style-type: none"> I confirm that the equipment and load have been inspected and are fit for purpose I only operate equipment that I am qualified to use I establish and obey barriers and exclusion zones I never walk under a suspended load 	Work Authorisation <p>Work with a valid permit when required</p>  <ul style="list-style-type: none"> I have confirmed if a permit is required I am authorised to perform the work I understand the permit I have confirmed that hazards are controlled and it is safe to start I stop and reassess if conditions change 	Working at Height <p>Protect yourself against a fall when working at height</p>  <ul style="list-style-type: none"> I inspect my fall protection equipment before use I secure tools and work materials to prevent dropped objects I tie off 100% to approved anchor points while outside a protected area



HAZID Discussion...



Life-Saving Rules



Bypassing Safety Controls

Obtain authorisation before overriding or disabling safety controls



- I understand and use safety-critical equipment and procedures which apply to my task
- I obtain authorisation before:
 - disabling or overriding safety equipment
 - deviating from procedures
 - crossing a barrier

Confined Space

Obtain authorisation before entering a confined space



- I confirm energy sources are isolated
- I confirm the atmosphere has been tested and is monitored
- I check and use my breathing apparatus when required
- I confirm there is an attendant standing by
- I confirm a rescue plan is in place
- I obtain authorisation to enter

Driving

Follow safe driving rules



- I always wear a seatbelt
- I do not exceed the speed limit, and reduce my speed for road conditions
- I do not use phones or operate devices while driving
- I am fit, rested and fully alert while driving
- I follow journey management requirements



Confined Space

Confined Space

Confined Space

Confined Space

Controls Discussion...



- Vimeo: Show CSE

- <https://vimeo.com/showcase/5939420>

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HAZID Discussion...



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Life-Saving Rules



Energy Isolation

Verify isolation and zero energy before work begins



- I have identified all energy sources
- I confirm that hazardous energy sources have been isolated, locked, and tagged
- I have checked there is zero energy and tested for residual or stored energy

Hot Work

Control flammables and ignition sources



- I identify and control ignition sources
- Before starting any hot work:
 - I confirm flammable material has been removed or isolated
 - I obtain authorisation
- Before starting hot work in a hazardous area I confirm:
 - a gas test has been completed
 - gas will be monitored continually

Line of Fire

Keep yourself and others out of the line of fire



- I position myself to avoid:
 - moving objects
 - vehicles
 - pressure releases
 - dropped objects
- I establish and obey barriers and exclusion zones
- I take action to secure loose objects and report potential dropped objects

Controls Discussion...



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Controls Discussion...



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HAZID Discussion...

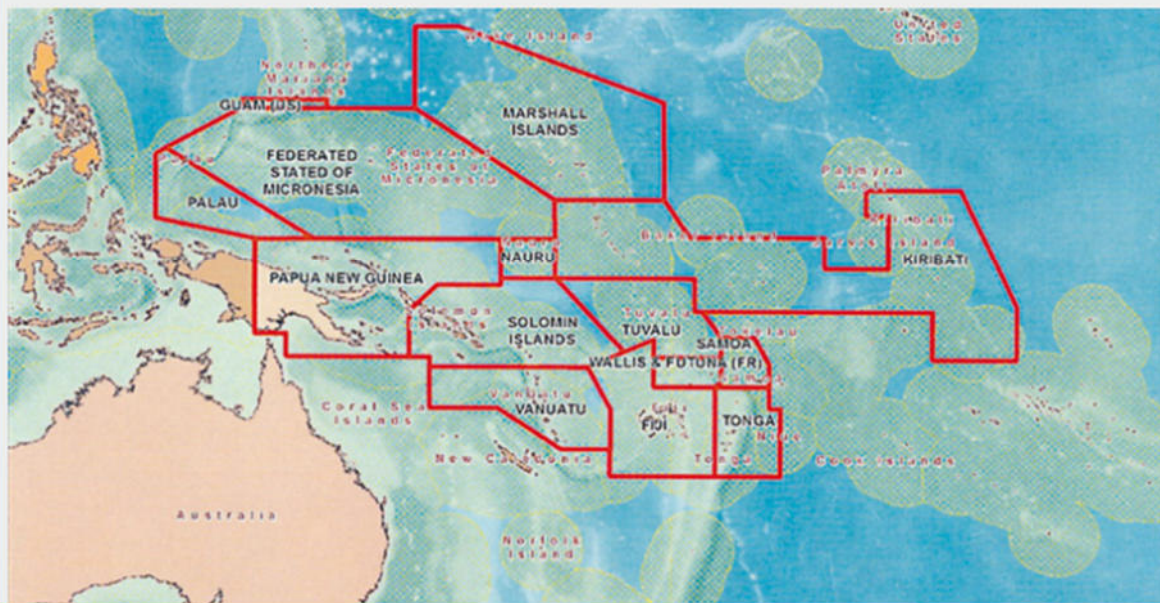


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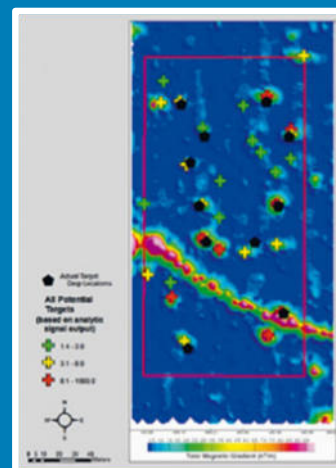
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Controls Discussion... UXO

CASE STUDY: OPERATION RENDER SAFE⁴



A GUIDE TO SURVEY AND CLEARANCE OF UNDERWATER EXPLOSIVE ORDNANCE



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HAZID Discussion...



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Life-Saving Rules



Safe Mechanical Lifting

Plan lifting operations and control the area



- I confirm that the equipment and load have been inspected and are fit for purpose
- I only operate equipment that I am qualified to use
- I establish and obey barriers and exclusion zones
- I never walk under a suspended load

Work Authorisation

Work with a valid permit when required



- I have confirmed if a permit is required
- I am authorised to perform the work
- I understand the permit
- I have confirmed that hazards are controlled and it is safe to start
- I stop and reassess if conditions change

Working at Height

Protect yourself against a fall when working at height



- I inspect my fall protection equipment before use
- I secure tools and work materials to prevent dropped objects
- I tie off 100% to approved anchor points while outside a protected area

Controls Discussion...



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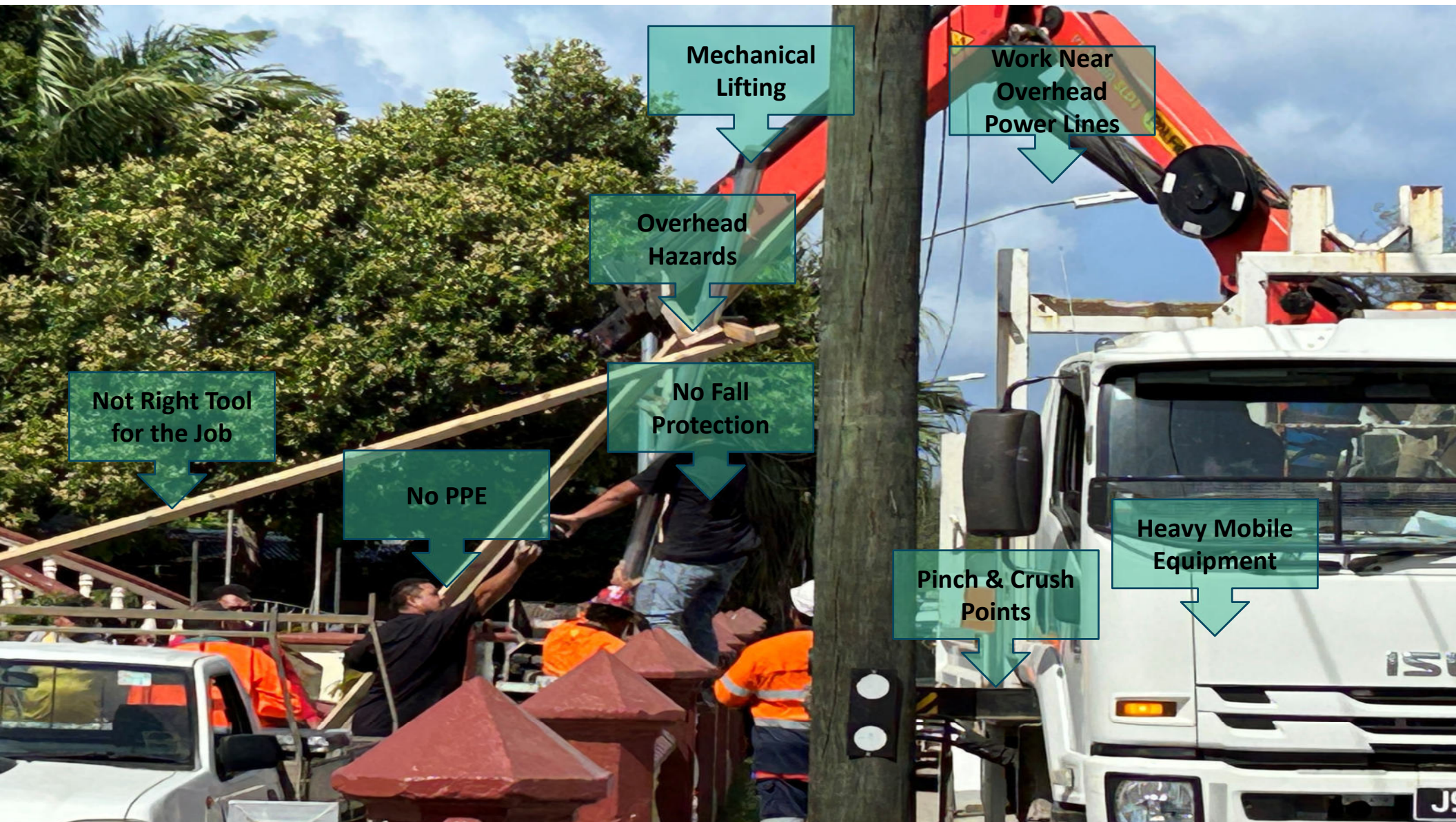
Vehicle Traffic

Blind Spots

Crush Points

**Heavy Mobile
Equipment**

**Crane Overhead
Hazards**



**Mechanical
Lifting**

**Work Near
Overhead
Power Lines**

**Overhead
Hazards**

**Not Right Tool
for the Job**

**No Fall
Protection**

No PPE

**Heavy Mobile
Equipment**

**Pinch & Crush
Points**

Typical Life-Saving Rules

Other LSR online video summaries from IOGP

Links to all LSR videos (1-2 minutes each)

- Youtube:
 - <https://www.youtube.com/playlist?list=PLt0-qTVCvEp1Dxe7j7SDbbiLrYIkUqYov>
- Vimeo: (show Energy Isolation & Work at Heights)
 - <https://vimeo.com/showcase/5939420>



Mental Health and Wellbeing



“A state of well-being in which every individual realizes his or her own potential, can cope with the normal stresses of life, can work productively and fruitfully, and is able to make a contribution to her or his community.” WHO

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Fatigue Management, Fitness for Work & Mental Health

Fatigue, drug and alcohol
abuse, harassment, stress,
psychosocial impacts...

Many workers will experience
these types of impacts !

Worker support mechanisms
should be in place...



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Mental Health and Wellbeing



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- WHO



Fatigue Management, Fitness for Work & Mental Health

Fatigue, drug and alcohol abuse, harassment, stress, psychosocial impacts...

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Worker support mechanisms should be in place...



Summary

- *‘provide workers with a safe and healthy working environment’... ADB*
- safety culture consists of shared values and beliefs
- life-saving rules are intended to prevent incidents from common hazards



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