National Mine Safety Week Program
THEME: MANAGING THE CRITICAL CONTROLS OF MOBILE EQUIPMENT RISKS
29 April - 03 May 2024

TABUBIL PLATEAU

Monday 29-April Day 1	Tuesday 30 -April Day 2	Wednesday 01-May Day 3	Thursday 02-May Day 4	Friday 03-May Day 5
LV, HV **& MOBILE EQUIPMENT INTERACTION**	**SUPERVISION OF WORK & RISK**	**FATIGUE MANAGEMENT**	**WORKSHOP & MAINTENANCE**	**VEHICLE CONDITION & SYSTEMS**
Activity of the Day	***Activity of the Day***	***Activity of the Day***	***Activity of the Day***	***Activity of the Day***
▪ **Presentation on incident data for all BPs and OTML Mobile Equipment and Light Vehicle 2023 and 2024** ▪ **Mobile Equipment Safety Drill**	▪ **Supervisors to validate on their teams driving exposure/experience and incident records.** ▪ **TEAM validation on drivers permits and PNG drivers licence** ▪ **Supervisors review JMP for their driver's traveling on the Tabubil/Kiunga highway**	▪ **Conduct a simulation using the ADAS dashboard cam. Role-play a scenario illustrating the impact of fatigue, chewing betelnut, or using a phone while driving.** ▪ **Track and report findings on the effectiveness of ADAS dashboard Cam alerts for communicating with the Advanced Driver Assistance System (APD) and the driver to ensure effective communication and alertness warnings.**	▪ **Brake test using the brake tester equipment at Workshop One (1) to test all BP's and OTML Mobile Equipment and LVs** ▪ **Tyre Rim repairs and install processes, check, validate,** ▪ **Tyre pressure safety,** ▪ **Wheel nut indicators ensuring all EI&P mobile equipment and LV are installed** ▪ **40 points checks**	▪ **Validate on the last Maintenance checklist for all EI&P Mobile Equipment and LV** ▪ **Plan Road trip with Milum and Starwest convoy and validate Safety devices/Radio/TrakPro/Dashboard cam etc** ▪ **Validate on Convoy Procedure**

- All Officers to liaise with respectively Line Departments & Stand along Business Partners Leaders and discuss how best these activities and can be undertaken during the NMSW. Select items that will be suit the respective areas and work environment.

Note: When selecting activities for a practical scenario, ensure a RA or JSA is develop to Mitigate any posing risk.

DAY 1

Activity for the supervision of work and risk with the theme of managing the critical controls of mobile equipment risks. This simulation can be part of a training workshop, or a safety drill aimed at educating workers and supervisors on how to effectively manage risks associated with operating mobile equipment in the workplace.

Title: Mobile Equipment Safety Drill

Objective: To practice supervision techniques and reinforce the importance of managing critical controls for mobile equipment risks.

Duration: Approximately 1 hour

Materials Needed:

1. Mobile equipment (simulated or real, depending on availability and safety considerations)
2. Safety checklist for mobile equipment operation
3. Safety gear (helmets, high-visibility vests, gloves, etc.)
4. Stopwatches or timers
5. Communication devices (walkie-talkies, if necessary)

Activity Steps:

1. **Introduction (5 minutes):** The session begins with a brief overview of the importance of mobile equipment safety. Emphasize the risks associated with improper operation and the critical controls necessary to mitigate those risks.
2. **Safety Briefing (10 minutes):** Conduct a safety briefing covering general safety guidelines, emergency procedures, and the specific risks associated with the mobile equipment being used in the drill.
3. **Demonstration (15 minutes):** A qualified instructor or supervisor demonstrates the proper operation of the mobile equipment, highlighting the critical controls and safety features. They also demonstrate what improper operation looks like and the potential consequences.
4. **Scenario Setup (10 minutes):** Set up a scenario where workers will be required to operate the mobile equipment in a simulated work environment. This could involve navigating obstacles, loading/unloading materials, or performing other tasks relevant to their workplace.
5. **Supervised Practice (20 minutes):** Workers are divided into small groups and assigned tasks involving the operation of the mobile equipment. Each group is supervised by a designated supervisor who ensures that all critical controls are being observed and proper safety procedures are followed. Supervisors provide real-time feedback and guidance as needed.
6. **Debriefing (10 minutes):** After the practice session, reconvene for a debriefing session. Discuss any observed safety violations, near misses, or areas for improvement. Emphasize the importance of vigilance in adhering to critical controls and the role of supervision in maintaining a safe work environment.
7. **Q&A and Feedback (5 minutes):** Open the floor for questions, comments, and feedback from participants. Encourage workers to share their experiences and insights from the drill.
8. **Conclusion (5 minutes):** Summarize the key takeaways from the drill and reiterate the importance of adhering to critical controls for mobile equipment safety. Thank everyone for their participation and commitment to workplace safety.

By simulating real-world scenarios and providing hands-on practice under supervision, this activity helps reinforce safety protocols and build confidence among workers and supervisors in managing risks associated with mobile equipment operation.

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OK TEDI MINING

DAY 2

Activity focused on workshops and maintenance with the theme of managing the critical controls of mobile equipment risks.

Title: Mobile Equipment Workshops and Maintenance Training

Objective: To educate workers and maintenance personnel on the importance of managing critical controls to mitigate risks associated with mobile equipment operation and maintenance.

Duration: Approximately 2 hours – Tentative – (Guide only)

Materials Needed:

1. Presentation materials (slides, handouts)
2. Mobile equipment maintenance manuals or guidelines
3. Safety gear (helmets, gloves, safety glasses, etc.)
4. Sample maintenance tools and equipment
5. Flip chart or whiteboard with markers

Activity Steps:

1. **Introduction (10 minutes):** Begin with a brief introduction to the training session, highlighting the importance of workshops and maintenance in ensuring the safe operation of mobile equipment. Emphasize the significance of managing critical controls to mitigate risks.
2. **Presentation on Mobile Equipment Maintenance (20 minutes):** Present information on the importance of regular maintenance for mobile equipment, including inspection procedures, lubrication, and repairs. Discuss how proper maintenance contributes to the safe operation of mobile equipment and reduces the risk of accidents.
3. **Group Discussion (15 minutes):** Facilitate a discussion on common maintenance challenges and risks associated with mobile equipment. Encourage participants to share their experiences and insights, as well as any strategies they currently use to manage maintenance-related risks.
4. **Case Study Analysis (20 minutes):** Present a case study involving a maintenance-related incident or failure of critical controls in mobile equipment. Ask participants to analyze the case study, identify contributing factors, and propose preventive measures to avoid similar incidents in the future.
5. **Interactive Demonstration (30 minutes):** Conduct a hands-on demonstration of mobile equipment maintenance tasks, focusing on the proper procedures for inspecting, servicing, and repairing critical components. Allow participants to ask questions and practice using maintenance tools and equipment under supervision.
6. **Role-Playing Exercise (20 minutes):** Divide participants into small groups and assign each group a scenario involving a maintenance task or workshop operation. Ask participants to role-play the scenario, with one person acting as the equipment operator and another as the maintenance technician. Afterward, discuss the importance of effective communication and coordination between operators and maintenance personnel.
7. **Safety Checklist Development (15 minutes):** Divide participants into small groups and ask them to develop a safety checklist for mobile equipment maintenance tasks. Encourage them to include specific steps for managing critical controls and mitigating associated risks.
8. **Conclusion and Q&A (10 minutes):** Summarize the key takeaways from the training session and open the floor for questions and discussion. Provide resources for further reading or training on mobile equipment maintenance and safety.

This activity provides participants with practical knowledge and skills for managing critical controls during workshops and maintenance activities, ultimately enhancing safety and reducing the risk of accidents in the workplace.

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DAY 3

Activity focused on fatigue management with the theme of managing the critical controls of mobile equipment risks.

Title: **Fatigue Management Workshop**

Objective: To raise awareness about the risks of fatigue when operating mobile equipment and to educate workers and supervisors on effective fatigue management strategies.

Duration: Approximately 1.5 hours

Materials Needed:

1. Presentation materials (slides, handouts)
2. Flip chart or whiteboard with markers
3. Examples of fatigue management tools (e.g., fatigue risk assessment forms)
4. Safety gear (helmets, high-visibility vests, etc.)

Activity Steps:

1. **Introduction (10 minutes):** Start with a brief introduction to the workshop, emphasizing the importance of managing fatigue when operating mobile equipment. Explain how fatigue can impair decision-making and increase the risk of accidents.
2. **Presentation on Fatigue Management (20 minutes):** Present information on the causes and effects of fatigue, as well as the importance of recognizing signs of fatigue in oneself and others. Discuss the impact of fatigue on mobile equipment operation and the associated risks.
3. **Group Discussion (15 minutes):** Divide participants into small groups and facilitate a discussion on personal experiences with fatigue and its effects on work performance. Encourage participants to share strategies they currently use to manage fatigue.
4. **Case Study Analysis (20 minutes):** Present a case study involving a fatigue-related incident in the context of mobile equipment operation. Ask participants to analyze the case study, identify contributing factors, and propose strategies for preventing similar incidents in the future.
5. **Interactive Activity: Fatigue Risk Assessment (20 minutes):** Provide participants with a fatigue risk assessment tool and ask them to assess the risk of fatigue for various scenarios involving mobile equipment operation. Discuss the factors that contribute to fatigue in each scenario and brainstorm mitigation strategies.
6. **Role-Playing Exercise (20 minutes):** Divide participants into pairs and assign each pair a scenario involving a fatigue-related challenge during mobile equipment operation. Ask participants to role-play the scenario, with one person portraying the operator experiencing fatigue and the other person acting as the supervisor. Afterward, discuss how the situation was handled and identify opportunities for improvement.
7. **Action Planning (10 minutes):** Ask participants to develop individual or group action plans for managing fatigue in their workplace. Encourage them to identify specific measures they can implement to reduce the risk of fatigue-related incidents.
8. **Conclusion and Q&A (10 minutes):** Summarize the key takeaways from the workshop and open the floor for questions and discussion. Provide resources for further reading or training on fatigue management.

This activity provides participants with practical knowledge and tools for managing fatigue when operating mobile equipment, ultimately reducing the risk of accidents and improving overall safety in the workplace.

DAY 4.

WORKSHOPS & MAINTENANCE

Activities focused on maintenance, specifically brake testing in workshops and ensuring tire and rim safety, all within the theme of managing critical controls of mobile equipment risks.

Activity 1: Workshop Brake Testing

Objective: To ensure proper maintenance and testing of brakes in workshops to mitigate risks associated with mobile equipment operation.

1. **Brake Inspection Demonstration (20 minutes):** Conduct a demonstration on how to inspect brakes properly. Highlight key components to check, such as brake pads, calipers, brake lines, and fluid levels. Emphasize the importance of identifying signs of wear or damage.
2. **Hands-on Brake Testing (30 minutes):** Divide participants into small groups and provide them with mobile equipment equipped with brakes. Guide them through the process of conducting brake tests, including static and dynamic testing procedures. Ensure participants understand how to interpret test results and identify potential issues.
3. **Scenario-Based Training (20 minutes):** Present scenarios involving brake-related emergencies or failures during equipment operation. Ask participants to discuss how they would respond to each scenario, emphasizing the importance of quick and decisive action to prevent accidents.
4. **Review of Brake Testing Protocols (15 minutes):** Review standardized brake testing protocols and procedures applicable to the workplace. Discuss any specific regulations or guidelines relevant to brake testing for mobile equipment.

Activity 2: Tire and Rim Safety

Objective: To educate workers on the importance of maintaining tire and rim safety to reduce the risk of accidents associated with mobile equipment.

1. **Tire and Rim Inspection Demonstration (20 minutes):** Conduct a demonstration on how to inspect tires and rims for signs of wear, damage, and proper inflation. Show participants how to identify common issues such as tread wear, sidewall damage, and rim deformation.
2. **Hands-on Tire and Rim Inspection (30 minutes):** Provide participants with mobile equipment or tire samples for inspection. Guide them through the process of inspecting tires and rims, checking for proper inflation, tread depth, alignment, and any visible signs of damage.
3. **Interactive Discussion (20 minutes):** Facilitate a discussion on the consequences of tire and rim failure during equipment operation. Encourage participants to share personal experiences or observations related to tire and rim safety and discuss strategies for mitigating risks.
4. **Best Practices and Maintenance Tips (15 minutes):** Provide participants with best practices and maintenance tips for ensuring tire and rim safety, including proper storage, handling, and installation procedures. Discuss the importance of regular inspections and maintenance schedules.

Conclusion:

Conclude the activities by summarizing the key takeaways and reinforcing the importance of maintaining critical controls related to brake testing, tire, and rim safety in mobile equipment maintenance. Encourage participants to apply the knowledge and skills gained during the activities to their daily work practices, ultimately contributing to a safer working environment.

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DAY 5

Activities focused on vehicle condition and system checks, including critical pre-start checks, monitoring systems like TrakPro and ADAS Dash Cam installed in equipment, and fundamental stable parking practices.

Activity 1: Critical Pre-Start Checks

Objective: To ensure that operators conduct thorough pre-start checks to identify and address potential safety issues before operating mobile equipment.

1. **Pre-Start Check Demonstration (20 minutes):** Conduct a demonstration on how to perform a comprehensive pre-start check. Emphasize the importance of checking critical components such as brakes, steering, lights, tires, fluid levels, and safety features.
2. **Hands-On Pre-Start Checks (30 minutes):** Provide participants with mobile equipment and pre-start checklists. Divide them into small groups and instruct them to conduct pre-start checks following the provided checklist. Encourage participants to identify and discuss any issues they encounter during the checks.
3. **Scenario-Based Training (20 minutes):** Present scenarios involving equipment failures that could have been prevented with proper pre-start checks. Discuss the potential consequences of not conducting thorough pre-start inspections and emphasize the importance of this routine procedure.
4. **Review of Pre-Start Check Protocols (15 minutes):** Review standardized pre-start check protocols and procedures applicable to the workplace. Discuss any specific regulations or guidelines relevant to pre-start checks for mobile equipment.

Activity 2: Monitoring Systems TrakPro and ADAS Dash Cams

Objective: To educate operators on the use of monitoring systems like TrakPro and ADAS Dash Cams to enhance safety and risk management during mobile equipment operation.

5. **Monitoring System Overview (20 minutes):** Provide an overview of monitoring systems such as TrakPro and ADAS Dash Cams, highlighting their features and benefits for safety and risk management. Explain how these systems can help operators identify potential hazards and mitigate risks.
6. **Hands-On Training (30 minutes):** Demonstrate how to use monitoring systems effectively, including how to access and interpret data, review footage, and respond to alerts or notifications. Allow participants to practice using the systems under supervision.
7. **Interactive Discussion (20 minutes):** Facilitate a discussion on the role of monitoring systems in enhancing safety and risk management. Encourage participants to share their experiences with using monitoring systems and discuss best practices for maximizing their effectiveness.
8. **Implementation Strategies (15 minutes):** Discuss strategies for implementing monitoring systems effectively in the workplace, including training requirements, data management protocols, and integration with existing safety procedures.

Activity 3: Fundamental Stable Parking Practices

Objective: To promote stable parking practices to prevent equipment rollaway incidents and ensure the safety of operators and bystanders.

1. **Stable Parking Demonstration (20 minutes):** Demonstrate proper stable parking techniques for mobile equipment, including the use of parking brakes, wheel chocks, and proper positioning on level ground. Emphasize the importance of preventing equipment rollaway incidents.
2. **Hands-On Practice (30 minutes):** Provide participants with mobile equipment and instruct them to practice stable parking techniques. Supervise their parking efforts and provide guidance as needed to ensure proper execution of stable parking procedures.
3. **Scenario-Based Training (20 minutes):** Present scenarios involving equipment rollaway incidents due to improper parking practices. Discuss the potential consequences of such incidents and emphasize the importance of following stable parking protocols.
4. **Review of Parking Procedures (15 minutes):** Review standardized stable parking procedures and protocols applicable to the workplace. Discuss any specific regulations or guidelines relevant to stable parking for mobile equipment.

Conclusion:

Conclude the activities by summarizing the key takeaways and reinforcing the importance of conducting critical pre-start checks, utilizing monitoring systems effectively, and practicing stable parking techniques to manage critical controls and mitigate risks associated with mobile equipment operation. Encourage participants to apply the knowledge and skills gained during the activities to their daily work practices, ultimately contributing to a safer working environment.