16.5.1 INTRODUCTION

16.5.1.1 This standard applies to all self propelled aerial lifts and mobile platforms. The purpose of this standard is to outline safe operating practices for the use of this equipment.

16.5.2 DEFINITIONS

16.5.2.1 Aerial lift or mobile platform - a personnel-carrying component of a device used to elevate personnel. This equipment is controlled by the personnel on the platform.

16.5.2.2 Competency Based – the ability to demonstrate operations skill and proficiency through written testing and field demonstration.

16.5.3 REQUIREMENTS

16.5.3.1 Only trained personnel shall be permitted to operate an aerial lift or mobile platform. Training must be Competency Based and completed and documented under the direction of a qualified person. The manufacturer or the manufacturer’s representative may be used to provide orientation and training. The training will include:

- Safety aspects and safe operating procedures for the equipment. (Refer to manufacturer's operating and safety manuals for specific information requirements for the type of aerial work platform to be operated),
- Demonstration of the safety systems, safety interlocks and alarms, and function of controls,
- Review and explanation of the safety decals, warnings and placards displayed on the work platform,
- Review of the pre-operational safety inspections for the type of equipment to be operated,
- Supervised practice in a controlled training area. Employees must demonstrate all operating functions and be able to identify and avoid typical hazards, and
- Supervised operation during production (normal operations).
- All training must be documented on the Competency Based forms and appropriate training certificate (i.e. MSHA 5000-23 form) and forwarded to the Safety department or facility recordkeeping center. (Forms are available in the C4 Working at Heights e-Room)
- Any individual who has not operated the equipment within the past 12 months must be re-trained (demonstrate proficiency).
16.5.3.2 All aerial lifts and mobile platforms must have: (Refer to manufacturer's operating and safety manuals for specific information)

- A procedure for testing safety controls and instructions for testing safety interlocks,
- Boom function alarms and emergency stops,
- Labels indicating special warnings, cautions, or restrictions necessary for safe operation visible at the operator stations,
- The maximum platform height and boom travel listed at the operator stations,
- The platform and its enclosure labeled as electrically insulated or non-insulated complete with the associated ratings,
- The different configurations in which the platform can be used indicated at the operator stations, and
- The load ratings clearly marked at the operator stations for all loading configurations. Where load ratings are dependent on a boom angle, a means to measure this angle from the work platform must be provided.

16.5.3.3 The work platform of all aerial lifts and mobile platforms must have either a fully enclosed basket or a standard handrail system including a top rail, a mid rail, and a toe board.

- All stepping, standing, and working surfaces to be skid resistant.
- Each platform shall have labeled and approved anchorage points for fall protection equipment.
- The lift shall have primary and secondary controls where the secondary controls are easily accessed at ground level and can override the platform controls, if required.
- The lift shall have an emergency stop easily accessed by the operator.

16.5.3.4 Aerial lift and mobile platform load ratings must never be exceeded. The platform should never substitute for a crane.

16.5.3.5 Each aerial lift and mobile platform must have an operations and safety manual. Service personnel shall be trained on preventive maintenance and inspection requirements from the manufacturer or manufacturer's representative and preventive maintenance sheets must be established for each lift.

16.5.3.6 All aerial lift and mobile platform shall be re-certified annually. Those lifts requiring electrical insulating properties must undergo a dielectric
test. The annual certification tag must be attached to the equipment for the duration of the certification period.

16.5.3.7 Modification or alteration of the equipment without written approval from the equipment manufacturer is not permitted. Altering, modifying, or disabling a safety devices is prohibited.

16.5.3.8 Daily pre-operational inspections must be performed and the inspection card completed prior to using the lift. All defects to the equipment must be reported to the supervisor. Any defect or malfunction affecting the safety of operation must be repaired prior to use. Any lift found to be unsafe must be tagged out of service until repaired. Pre-operational inspections cards must be filed for a period of six months.

16.5.3.9 Prior to operating an aerial lift or mobile platform, the job site must be evaluated for hazards such as uneven surfaces, ditches, power lines, overhead obstructions, and discharge vents.

16.5.3.10 Before each elevation of an aerial lift or mobile platform the operator shall check for overhead obstructions and overhead conductors. Lifts and platforms are prohibited from operating within 10 feet of energized power lines (greater distances are required for voltages above 50kV - 10 feet plus .4 inches for every additional kilovolt above 50 kV and in accordance with manufacturer's requirements). A Close Proximity Permit is required when conducting work that places an aerial lift within 15 feet of an energized power line. (See Safety and Health Standard 16.4)

16.5.3.11 Personnel shall maintain firm footing on the platform and must wear approved fall protection equipment, properly attached, at all times. Tools or equipment used while inside the platform must be adequately secured. The use of railings, ladders, planks, etc. is prohibited. (See Safety and Health Standard 16.20)

16.5.3.12 The area under which aerial lifts are being used shall be protected by barricading to prevent passer-by from being struck by falling materials. (See Safety and Health Standard 16.3)

REFERENCES:

OSHA 29 CFR 1910.67
Equipment Manufactures Specifications

KUC Safety and Health Standard 16.3 Restricted Access - Barricading

KUC Safety and Health Standard 16.4 Cranes and Hoists

KUC Safety and Health Standard 16.20 (Fall Protection) Working at Heights

Rio Tinto C4 Working at Heights Standard

**REVISION HISTORY:**

<table>
<thead>
<tr>
<th>MOC#</th>
<th>Description of Change</th>
<th>Prepared By</th>
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<tr>
<td>10919</td>
<td>Revisions submitted by the KUC Working at Heights Champion and Custodians to include pre-operations inspection and competency based training requirements. Updated format and Document number added.</td>
<td>KUC Safety and Health Standards Committee</td>
<td>11/2009</td>
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