Rio Tinto Minerals

HSEQ Work Instruction (Ladders)

08-HSEQ-I-G	
Mgt. System Element #:	08
Value Functions (HSEQ):	HSEQ
Document Type:	Work Instruction
Site(s):	RTM-Boron
Department(s):	All
Hard copy control:	

Requirements

- 1. Steps to comply with RT and RTM requirements.
- Personnel carrying out work under this procedure must be familiar with and comply with this procedure in full.
- A ladder is meant for means of access and egress and is not designed to be a working platform. To be using a ladder correctly means that 3 points of contact are maintained at all times

Equipment and Tools	Competent Person
Hard Toe boots, gloves, Safety Glasses, Ladder, Tools as needed	Any personnel who have read and thoroughly understands this Work Instruction

Protective Equipment	Potential Hazards	Potential Incidents/Injuries
Hard toe boots, gloves, Safety Glasses	Manual handling Repetitive movements, awkward positions, vibration, equipment weight, muscle fatigue Overhead obstructions during ascending/descending Ascending/descending, foot and hand placement Gravity Uneven load, falling tools Mechanical	 Repetitive Strain Injuries (Back strain, carpal tunnel, etc.) 3 point contact Injury to head, back or shoulders from equipment in close proximity to ladder route Falling tools/equipment Abrasions, lacerations Bruises, strains/sprains, breaks, head injury, spinal injury Fall from height

Crushing/ Pinch Point	Contact with steam, electricity, hot process lines
Fall From Height	normally out of reach from grade
 Uncontrolled Release of Energy Line of fire Close proximity to hot process lines, air lines, electrical 	giado

Step #	Description of Job Step	HSE Risks/Hazards	Control Measures
1	Complete a Take 5 Consider: Inspecting work area and look for hazards: hoses/cords that may be tripped on, other slip/trip/fall hazards etc. If area requires cleaning, do so prior to starting task. Ensuring level ground to prevent ladder from slipping	See description	Housekeeping activities Take 5
2	Select appropriate ladder (Step Ladders, Folding Ladder, extension ladder. See figure 1,2,3) to safely complete the task *Note* If a ladder selected that will put the user at risk of falling 6 ft. or more, Fall Protection must be worn and at a minimum a level 2 Risk Assessment (JHA/JSA) in addition to a Take 5 must be completed prior to use. Documenting: Any Emergency Response in the event of a fall	Fall from height Ladder falling/slipping off the wall Falling objects	Take 5 Pre Operation Inspection PPE Fall Protection (If appropriate)
3	Inspect the ladder for any deficiencies: Attach the Pre-Operation inspection and any other Risk Assessment completed for the task to your Take 5 During the inspection if the ladder is found to be deficient, take the	 Poor maintenance, Lack of regular inspections Overloaded 	Pre Operation Inspection

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	ladder out of service a place a tag with "Do Not Use" in a highly visible spot		
4	Establish an Exclusion zone. Place barrier tape to prevent unauthorized personnel from entering work area	Falling Objects	Take 5
5	Climbing the ladder: • Face the ladder • One step at a time • One person at a time • 3 Points of contact at all times In the cases of an extension ladder a ratio of 4:1 should be used (See figure 4) Example 20ft vertical: 5 ft. horizontal. Ideally the ladder will be at a 70-75 degree angle • Tie off ladder at the top or secure at the bottom • Ladder should extend aminimum of 3 feet beyond the top of the object • Ladder should be no longer than 22 feet • Keep body inside handrails to prevent over-reaching • If the personnel involved are exposed to a potential fall greater than 6 feet, fall protection must be worn. An emergency response plan must be identified if Working over 6 feet.	Fall from height	Take 5
6	Dismounting the ladder: Descend the ladder one step at a time facing the ladder always maintaining 3 points of contact	Fall from height	Take 5 Personal behaviors

7	Once task is complete. Clean up	Ladder deteriorates	Personal behaviors
	area. Place ladder in an appropriate	due to improper	Take 5
	storage area	storage.	Take 9

2. Visual references.



Figure1- Step Ladder



Figure 2-Folding Ladder





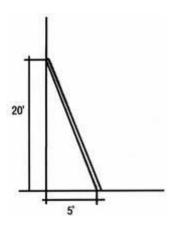


Figure 4- 4:1 Ratio

Responsibilities

Authorities and accountabilities or roles as they pertain to the work instruction

Everyone is responsible for identifying hazards with this procedure and initiating change management to correct those deficiencies.

The following personnel should assume the primary responsibility for the activities covered by this procedure:

- Contractors
- Operators
- Supervisors
- Superintendents
- Managers

References & supporting documents (optional/as needed)

Doc Ref.	Document Title
Rio Tinto Standards C-4	Working at Height Standard