

# Trainee: Elijah

Operator Profile



**BARRICK** | Lumwana Mine

## Operator Capability



## Operator Attitude



## Current Operator Metrics

					Summary
<b>Date</b>	18/11/2015	19/11/2015	29/12/2015	31/12/2015	
<b>Equipment #</b>	EX06	EX06	EX06	EX04	
<b>Material Type</b>	Tight, Locked Material	Locked Material	Locked, Stacked, Some Loose	Tough Interlocked	
<b>Actual Cycle Times</b>	43.7	43.7	35.9	43.3	<b>+17.8%</b>
<b>Achievable</b>	<b>34.2</b>	<b>34.2</b>	<b>34.2</b>	<b>34.2</b>	
<b>Actual Fill Factor</b>	80%	80%	85%	95%	<b>+12.5%</b>
<b>Achievable</b>	<b>95%</b>	<b>95%</b>	<b>95%</b>	<b>95%</b>	
<b>Actual # of Passes</b>	8.5	7.5	7.5	6	<b>7.4 Avg.</b>
<b>Achievable</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	
<b>Training Hours</b>	8	7.5	7	7.5	<b>29.5</b>



## Performance Averages

Pre-Meyvn Dig Rate Average = **1,867.22**  
Post Meyvn Dig Rate Average = **2,067.64**

**Total = +200 Tons Per Hour = 10.71% Improvement**

## Metric Summary

- Cycle Time = **21.78%** Improvement Possibility
- Fill Factor = **11.76%** Improvement Possibility
- # of Passes = **23.33%** Improvement Possibility

## Continued Training Action Items

- Elijah had quite a few swing impacts and track slams. While not constant, it can cause damage to the machine. Work with Elijah on controlling the bucket at the toe and track area.
- Elijah works the face properly when dealing with poor fragmentation. Elijah finds the weak spots and uses it to unlock the tight formation.
- Elijah is usually too close to the face. Make sure he has proper spacing in order to maximize his dig radius.
- Pay attention to Elijah's bucket curl as it was noticed he sometimes takes too much time with this part of his dig.

## Comprehensive Feedback

### Day #1 Feedback:

- Elijah was a bit rough, dig cycles are hurried, trying to be fast.
- Engaging toe with 90-degree tip angle ("dozing") and not giving enough time to give the teeth to get a good bite (although the material was very difficult to do so).



- Usually too close to the face where the backboard would contact the Stick/Arm to quickly, putting the dig stroke in a bind, making the "breakout" process difficult. It was demonstrated/coached to start the bucket curl early, allowing the tips to go into penetration process sooner (thus, start of; bucket fill happens, sooner).
- Elijah was very receptive to any prompts to organize cable handler, dozer and/or supervisors, for any foreseen problems. After I demonstrated, Elijah did smooth his operation.
- Elijah does a great job of coordinating his work area. When he gets on the radio, he is clear and precise in what he wants to do and what is needed.
- Another area to continue to focus on with Elijah is fill factor. Better management of the material around him will improve fill factors.

**Day #2 Feedback:**

- Jason operated for 3.5 hours, removing tails.
- Elijah was engaging toe while swinging at times. He was coached that this is a bad practice. Side forces are detrimental to both GET and all components on the shovel.
- Elijah was taking too much time to curl the bucket within the dig cycle. He was coached on how to start the bucket curl early.
- Elijah has a great sense of urgency to initiate processes early for upcoming problem areas. He calls his supervisor and dozer operator, preparing them to make plans before problems arise. Elijah is very attentive during coaching process, absorbing new techniques well.
- We started our shift at by loading our first truck at 7:40. Freemont communicated well with the dozer operator to fill a small hole by casting material for him to fill it. Freemont is very good at communicating on the radio.
- We went down to relocate the shovel, but couldn't as the road was closed because of a blast.

**Day #3 Feedback:**

- Elijah was spotting the trucks too close.
- When picking up tail applies too much swing reference in hard material. He was coached that if no dozer is available, the heel can be used to "retract" over run tail material back within reach.
- He was also coached to jack steer right, to move closer to high material on the right giving him a means of retreating from oversize. The other side of the coin, the next loading area is prepared for the next relocation. He was positioning the shovel too close during bottom dig.



- Elijah was operating shovel smoothly before swinging while engaging hard tail and continued to do so. Once coached to not give swing reference, while digging tail, this practice stopped. Elijah went right into a Top Dig scenario, after cleaning up the toe.

**Day #4 Feedback:**

- Elijah did not return from the clinic due to the rains. There was no production this morning with Elijah.
- David Mulenga said there would be no loads hauled from EX04 this shift as there was much road repair needed.

**Day #5 Feedback:**

- Bucket fill factors were poor as Elijah would not prioritize the material that was close to him, also initial engagement was inclining and above grade. He was coached that material too far away is a waste of time and to slow down at toe engagement.
- In an attempt to be fast, Elijah scrubbed the bottom of GET while retracting with bucket flat bottomed. He was coached that that is an easy way to strip off the GET. Elijah was hitting the stops on full reverse bucket curl before dig cycle at times. He was coached to start closing clam and reverse bucket curl as soon as material was free of the bucket, further explaining this "sets up" the bucket for the dig cycle.
- Elijah said he could see the bucket filling with material faster and the bucket fill factors improved after he slowed down.

**Day #6 Feedback:**

- No operation, today. We covered a full inspection of the machine, where to look for cracks in the bucket, stick and boom, making sure all joints had signs of grease, including emergency fire procedures. A review with Elijah on everything that had been trained thus far was conducted as well.

