

Haulage Truck Operator Training Program

<b>Company Name:</b>	<b>Equipment Identification:</b> <b>Type of Equipment:</b> Off Road Haulage Truck <b>Make:</b> <b>Model:</b> <b>Year:</b> <b>Use:</b>
<b>Mine Name:</b>	
<b>Date of Analysis:</b>	

**Task 1: Pre-Operational Inspection**

Learner will be able to demonstrate how to conduct a safe and thorough pre-operational inspection. Learner will also be able to explain job duties, why they are conducted, any associated risk, and how to implement appropriate controls. A thorough pre-operational inspection includes the following duties:

***Conduct Ground/Walk-Around Inspection***

<b>Job Steps</b>	<b>Importance Narrative (Risk/Production/Maintenance)</b>	<b>Importance Ranking 1-Important 2-Very important 3-Critical</b>	<b>Satisfactory or Needs Work (Student Evaluation)</b>	<b>Procedure/Risk Resolution Notes/Comments</b>
Attend pre-shift meeting <ul style="list-style-type: none"> <li>• Talk to previous shift</li> <li>• Get duty assignment from supervisor</li> <li>• Perform self assessment for readiness to work</li> <li>• Check weather conditions/forecast</li> <li>• Check for red tags (lock out/tag out)</li> </ul>				
Check for slip/trip hazards				
Check truck is secured against movement				
Check general condition of truck <ul style="list-style-type: none"> <li>• Body pins</li> <li>• Body/frame for cracks</li> <li>• Broken or cracked welds</li> <li>• Roll over protection structure (rops)</li> <li>• Suspension cylinder &amp; pins</li> </ul>				
Check for leaks				

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Check suspension				
Check driveshaft				
Check steering linkage <ul style="list-style-type: none"> <li>• Cylinder</li> <li>• Tie rod ends</li> <li>• Drag links</li> </ul>				
Check tires/wheels <ul style="list-style-type: none"> <li>• Cuts</li> <li>• Damage</li> <li>• Inflation appearance</li> <li>• Missing/damaged mounting hardware</li> <li>• Cracked wheels</li> <li>• Rocks between wheels</li> <li>• Rock ejectors</li> </ul>				
Check physical condition of external parking brake				
Check physical condition/clean of lights				
Check fire extinguisher/fire suppression system				
Check radiator for debris/damage				
Check for unusual odors/noises/excess heat				
Check air tank relief valve/drain water				

***On-Machine Inspection***

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<p><b>Job Steps</b></p>	<p><b>Importance Narrative (Risk/Production/Maintenance)</b></p>	<p><b>Importance Ranking</b> 1-Important 2-Very important 3-Critical</p>	<p><b>Satisfactory or Needs Work (Student Evaluation)</b></p>	<p><b>Procedure/Risk Resolution Notes/Comments</b></p>
<p>Mount machine</p> <ul style="list-style-type: none"> <li>• Maintain 3-point contact</li> <li>• Face ladder</li> </ul>				
<p>Check for safe access to cab</p> <ul style="list-style-type: none"> <li>• Hand holds</li> <li>• Railings</li> <li>• Steps</li> <li>• Decks</li> <li>• Ladders</li> <li>• Doors/latches</li> </ul>				
<p>Check fluid levels/inspect engine compartment</p> <ul style="list-style-type: none"> <li>• Hydraulic</li> <li>• Transmission</li> <li>• Engine oil</li> <li>• Coolant</li> <li>• Brake</li> <li>• Fuel</li> <li>• Grease auto-lube</li> <li>• Steering reservoir</li> <li>• Loose wires</li> </ul>				
<p>Check hoses/lines/tubes/fittings for damage</p> <ul style="list-style-type: none"> <li>• Routing (not rubbing)</li> <li>• Excessive wear</li> <li>• Missing/loose clamps</li> </ul>				
<p>Check drive belts/guards</p>				
<p>Check electrical system</p>				

***In Cab Inspection (Engine Off - Ignition On)***

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<b>Job Steps</b>	<b>Importance Narrative (Risk/Production/Maintenance)</b>	<b>Importance Ranking</b> 1-Important 2-Very important 3-Critical	<b>Satisfactory or Needs Work (Student Evaluation)</b>	<b>Procedure/Risk Resolution Notes/Comments</b>
Check mirrors/windows				
Check wipers				
Check horn				
Check seat belt				
Check lights/turn signals				
Check two way radio/computer				
Check camera				
Check backup devices				
Check emergency steering				
Adjust seat/steering wheel				
Check indicators with test switch				
Check cab/health & safety <ul style="list-style-type: none"> <li>• Door seals/latches and acoustical materials</li> <li>• Cab cleanliness (dust &amp; dirt)</li> <li>• Loose items/ obstructions around controls</li> <li>• Intake air filters</li> </ul>				
Check fire extinguisher/suppression				
Check all controls in neutral				

***In Cab Inspection (Engine On)***

<b>Job Steps</b>	<b>Importance Narrative (Risk/Production/Maintenance)</b>	<b>Importance Ranking</b> 1-Important 2-Very important 3-Critical	<b>Satisfactory or Needs Work (Student Evaluation)</b>	<b>Procedure/Risk Resolution Notes/Comments</b>
Start/warm up Engine				

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<p><b>Job Steps</b></p>	<p><b>Importance Narrative (Risk/Production/Maintenance)</b></p>	<p><b>Importance Ranking</b> 1-Important 2-Very important 3-Critical</p>	<p><b>Satisfactory or Needs Work (Student Evaluation)</b></p>	<p><b>Procedure/Risk Resolution Notes/Comments</b></p>
Check heat/air conditioning/defroster				
Fasten seat belt				
Verify instrument operation				
<p>Check brakes</p> <ul style="list-style-type: none"> <li>• Service brake</li> <li>• Parking brake</li> <li>• Secondary brake</li> </ul>				
Check retarder function				
<p>Check monitoring system</p> <ul style="list-style-type: none"> <li>• Electronic</li> <li>• Oil pressure gauge</li> <li>• Air pressure gauges</li> <li>• Volt meter</li> <li>• Engine temperature</li> </ul>				

***Complete Defect/Status Report***

<p><b>Job Steps</b></p>	<p><b>Importance Narrative (Risk/Production/Maintenance)</b></p>	<p><b>Importance Ranking</b> 1-Important 2-Very important 3-Critical</p>	<p><b>Satisfactory or Needs Work (Student Evaluation)</b></p>	<p><b>Procedure/Risk Resolution Notes/Comments</b></p>
Complete defect/status report				

**Task 2: Operation**

Learner will be able to demonstrate how to safely and productively operate the haul truck. Learner will also be able to explain job duties, why they are conducted, any associated risk, and how to implement appropriate controls. Operational duties include:

***Know Your Controls & Gauges***

<b>Job Steps</b>	<b>Importance Narrative (Risk/Production/Maintenance)</b>	<b>Importance Ranking</b> 1-Important 2-Very important 3-Critical	<b>Satisfactory or Needs Work (Student Evaluation)</b>	<b>Procedure/Risk Resolution Notes/Comments</b>
Know your controls & gauges <ul style="list-style-type: none"> <li>• Purpose</li> <li>• Location</li> <li>• Use</li> <li>• Normal ranges</li> </ul>				

***Maintain Communication***

<b>Job Steps</b>	<b>Importance Narrative (Risk/Production/Maintenance)</b>	<b>Importance Ranking</b> 1-Important 2-Very important 3-Critical	<b>Satisfactory or Needs Work (Student Evaluation)</b>	<b>Procedure/Risk Resolution Notes/Comments</b>
Maintain communication <ul style="list-style-type: none"> <li>• Radio</li> <li>• Computers</li> <li>• Eye contact</li> <li>• Signals                             <ul style="list-style-type: none"> <li>• Hand/lights/turn signals</li> <li>• Spotters</li> </ul> </li> <li>• Report hazards/malfunctions/road conditions</li> </ul>				

**Traveling Unloaded**

<p><b>Job Steps</b></p>	<p><b>Importance Narrative (Risk/Production/Maintenance)</b></p>	<p><b>Importance Ranking</b> 1-Important 2-Very important 3-Critical</p>	<p><b>Satisfactory or Needs Work (Student Evaluation)</b></p>	<p><b>Procedure/Risk Resolution Notes/Comments</b></p>
Release parking brake				
Sound horn/check for clearance				
Engage transmission & signal before moving				
<p>Perform initial movement checks</p> <ul style="list-style-type: none"> <li>• Rolling brake</li> <li>• Steering                             <ul style="list-style-type: none"> <li>• Front end play</li> <li>• Proper right/left steering</li> </ul> </li> </ul>				
<p>Recognize abnormal performance</p> <ul style="list-style-type: none"> <li>• Driveline noise and vibration</li> <li>• Unusual odors/noises</li> <li>• Gauges/indicators</li> </ul>				
<p>Maintain safe speed for conditions</p> <ul style="list-style-type: none"> <li>• Weather</li> <li>• Road</li> <li>• Visibility</li> <li>• Traffic</li> </ul>				
Know your blindspots				
Check for road hazards				
Check for highwall hazards				
<p>Practice defensive driving</p> <ul style="list-style-type: none"> <li>• Awareness for other vehicles</li> <li>• Vehicle spacing</li> <li>• Scan ahead</li> <li>• Seatbelt</li> </ul>				
<p>Traveling on a Grade</p> <ul style="list-style-type: none"> <li>• Pre-select gear for grade</li> <li>• Use retarder</li> <li>• Yield to loaded truck</li> </ul>				

Haulage Truck Operator - Training and Assessment Worksheet

<b>Job Steps</b>	<b>Importance Narrative (Risk/Production/Maintenance)</b>	<b>Importance Ranking</b> 1-Important 2-Very important 3-Critical	<b>Satisfactory or Needs Work (Student Evaluation)</b>	<b>Procedure/Risk Resolution Notes/Comments</b>
Monitor gauges for proper operation				
Clean windshield				
Use signals				
Count loads				
Accelerate smoothly				
Obey traffic signs				
Monitor television screens				

**Loading**

<b>Job Steps</b>	<b>Importance Narrative (Risk/Production/Maintenance)</b>	<b>Importance Ranking</b> 1-Important 2-Very important 3-Critical	<b>Satisfactory or Needs Work (Student Evaluation)</b>	<b>Procedure/Risk Resolution Notes/Comments</b>
Maintain awareness for other vehicles				
Slow down in congested areas				
Be aware of load area conditions				
Follow loader's signals				
Check mirrors/camera when backing				
Put transmission in neutral				
Set brake (parking break/break lock)				
Stay in cab/wear seatbelt				
Check load scale				
Check handling after loading				
Release parking brake				
Look both ways prior to proceeding				
Signal before moving				

**Traveling While Loaded**

<p><b>Job Steps</b></p>	<p><b>Importance Narrative (Risk/Production/Maintenance)</b></p>	<p><b>Importance Ranking</b> 1-Important 2-Very important 3-Critical</p>	<p><b>Satisfactory or Needs Work (Student Evaluation)</b></p>	<p><b>Procedure/Risk Resolution Notes/Comments</b></p>
Adjust operation for load and conditions				
Use retarder and engine brake functions				
<p>Recognize abnormal performance</p> <ul style="list-style-type: none"> <li>• Driveline noise and vibration</li> <li>• Unusual odors/noises</li> <li>• Gauges/indicators</li> <li>• Tires/handling</li> </ul>				
<p>Maintain safe speed for conditions</p> <ul style="list-style-type: none"> <li>• Weather</li> <li>• Road</li> <li>• Visibility</li> <li>• Traffic</li> </ul>				
Adjust operation when going between underground and surface				
Know your blindspots				
<p>Check for road hazards</p> <ul style="list-style-type: none"> <li>• Underground barricaded areas</li> <li>• Berm heights</li> <li>• Highwall/stockpile hazards</li> </ul>				
<p>Practice defensive driving</p> <ul style="list-style-type: none"> <li>• Maintain awareness for other vehicles</li> <li>• Vehicle spacing</li> <li>• Scan ahead</li> <li>• Seatbelt</li> </ul>				
<p>Traveling on a grade</p> <ul style="list-style-type: none"> <li>• Pre-select gear for grade</li> <li>• Use retarder</li> <li>• Yield to loaded truck</li> </ul>				
Use signals				
Accelerate/decelerate smoothly				

<b>Job Steps</b>	<b>Importance Narrative (Risk/Production/Maintenance)</b>	<b>Importance Ranking</b> 1-Important 2-Very important 3-Critical	<b>Satisfactory or Needs Work (Student Evaluation)</b>	<b>Procedure/Risk Resolution Notes/Comments</b>
Obey traffic signs				
Monitor television screens				

**Dumping**

<b>Job Steps</b>	<b>Importance Narrative (Risk/Production/Maintenance)</b>	<b>Importance Ranking</b> 1-Important 2-Very important 3-Critical	<b>Satisfactory or Needs Work (Student Evaluation)</b>	<b>Procedure/Risk Resolution Notes/Comments</b>
Enter dump area <ul style="list-style-type: none"> <li>• Ensure adequate area lighting</li> <li>• Maintain awareness for other vehicles</li> <li>• Slow down in congested areas</li> <li>• Check for overhead powerlines</li> <li>• View dump crest                             <ul style="list-style-type: none"> <li>• Inspect the ground surface for cracks</li> <li>• Check for mid -axle high berm</li> <li>• Select a reasonably level area to dump</li> <li>• Avoid softspots and depressions</li> <li>• Do not back up if visibility is impaired</li> </ul> </li> </ul>				
Prepare to Dump <ul style="list-style-type: none"> <li>• Stop gradually</li> <li>• Do not impact berm</li> <li>• Keep safe distance between other dumping trucks (1 truck length</li> </ul>				

Haulage Truck Operator - Training and Assessment Worksheet

<b>Job Steps</b>	<b>Importance Narrative (Risk/Production/Maintenance)</b>	<b>Importance Ranking</b> 1-Important 2-Very important 3-Critical	<b>Satisfactory or Needs Work (Student Evaluation)</b>	<b>Procedure/Risk Resolution Notes/Comments</b>
between each truck) <ul style="list-style-type: none"> <li>• Set brake (parking break/break lock)</li> <li>• Put transmission in neutral</li> </ul>				
Stay in cab				
Dump when approved <ul style="list-style-type: none"> <li>• Increase rpm</li> <li>• Raise bed/dump load</li> <li>• Check bed movement</li> <li>• Lower bed completely</li> <li>• Dump short as required</li> <li>• Signal before moving</li> </ul>				
Be aware of abnormal conditions <ul style="list-style-type: none"> <li>• Load hang-up</li> <li>• Hydraulic hoist failures</li> <li>• Soft spots</li> </ul>				

**Emergency Procedures/ Abnormal Occurrences/ Non-Routine Procedures**

<b>Job Steps</b>	<b>Importance Narrative (Risk/Production/Maintenance)</b>	<b>Importance Ranking</b> 1-Important 2-Very important 3-Critical	<b>Satisfactory or Needs Work (Student Evaluation)</b>	<b>Procedure/Risk Resolution Notes/Comments</b>
Fire				
Medical				
React to panel lights				
Engine stall/power loss <ul style="list-style-type: none"> <li>• On grade</li> <li>• On level</li> </ul>				

Haulage Truck Operator - Training and Assessment Worksheet

Job Steps	Importance Narrative (Risk/Production/Maintenance)	Importance Ranking 1-Important 2-Very important 3-Critical	Satisfactory or Needs Work (Student Evaluation)	Procedure/Risk Resolution Notes/Comments
Drive shaft failure				
Tire failure				
Brake failure				
Retarder failure				
Steering failure				
Strut failure				
Hydraulic lift failure				
Electrical failure				
Contact with powerlines <ul style="list-style-type: none"> <li>• Signal others</li> <li>• Stay in cab or drive away, if possible</li> </ul>				
Sudden loss of visibility <ul style="list-style-type: none"> <li>• Stop</li> <li>• Proceed when visibility allows it</li> </ul>				
Loss of control <ul style="list-style-type: none"> <li>• Skidding</li> <li>• Submersion</li> <li>• Roll over</li> <li>• Ground failure</li> </ul>				
Other vehicle out of control				

**Field Maintenance**

Job Steps	Importance Narrative (Risk/Production/Maintenance)	Importance Ranking 1-Important 2-Very important 3-Critical	Satisfactory or Needs Work (Student Evaluation)	Procedure/Risk Resolution Notes/Comments
Fueling				

Haulage Truck Operator - Training and Assessment Worksheet

<b>Job Steps</b>	<b>Importance Narrative (Risk/Production/Maintenance)</b>	<b>Importance Ranking</b> 1-Important 2-Very important 3-Critical	<b>Satisfactory or Needs Work (Student Evaluation)</b>	<b>Procedure/Risk Resolution Notes/Comments</b>
Greasing				
Drive lines				
Hydraulics				
Tire maintenance				
Blocking techniques				
Towing				
Pressure wash/steam clean				
Battery				
Changing fluids <ul style="list-style-type: none"> <li>• Antifreeze</li> <li>• Break fluid</li> <li>• Engine oil</li> </ul>				



**Task 3: Post-Operational Inspection**

Learner will be able to demonstrate how to conduct a safe and thorough post-operational inspection Learner will also be able to explain job duties, why they are conducted, any associated risk, and how to implement appropriate controls. A thorough post-operational inspection includes the following duties:

**Observe Guages/Indicators**

<b>Job Steps</b>	<b>Importance Narrative (Risk/Production/Maintenance)</b>	<b>Importance Ranking 1-Important 2-Very important 3-Critical</b>	<b>Satisfactory or Needs Work (Student Evaluation)</b>	<b>Procedure/Risk Resolution Notes/Comments</b>
Observe gauges/indicators				

**Park Truck**

<b>Job Steps</b>	<b>Importance Narrative (Risk/Production/Maintenance)</b>	<b>Importance Ranking 1-Important 2-Very important 3-Critical</b>	<b>Satisfactory or Needs Work (Student Evaluation)</b>	<b>Procedure/Risk Resolution Notes/Comments</b>
Set parking brake				
Place controls in neutral position				
Idle down/cool down engine				
Stop engine/turn off electrical power <ul style="list-style-type: none"> <li>• Lights</li> <li>• Master switch</li> <li>• Battery disconnect switch</li> </ul>				
Dismount machine <ul style="list-style-type: none"> <li>• Clean out cab</li> <li>• Check ladder</li> <li>• Observe ground condition</li> <li>• Maintain 3-point contact</li> <li>• Face ladder</li> </ul>				

**Conduct Walk Around Inspection**

<b>Job Steps</b>	<b>Importance Narrative (Risk/Production/Maintenance)</b>	<b>Importance Ranking</b> 1-Important 2-Very important 3-Critical	<b>Satisfactory or Needs Work (Student Evaluation)</b>	<b>Procedure/Risk Resolution Notes/Comments</b>
Drain water from air tank				
Chock truck				
Look for Liquid Fluid Leaks				
Plug in block heater				

**Communicate Changes In Operating Conditions**

<b>Job Steps</b>	<b>Importance Narrative (Risk/Production/Maintenance)</b>	<b>Importance Ranking</b> 1-Important 2-Very important 3-Critical	<b>Satisfactory or Needs Work (Student Evaluation)</b>	<b>Procedure/Risk Resolution Notes/Comments</b>
Communicate changes in operating conditions <ul style="list-style-type: none"> <li>• Truck</li> <li>• Mine</li> </ul>				