

Company Name:	Type of Equipment: Haul truck Make: HaulPack
Mine Name:	Model: 930E Year: 1997 – 1999
Date of Analysis:	Use: In the pit hauling ore and waste

Pre-Assessment:

Pre-requisites:

Duty 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 steps, why they are conducted, any associated risk, and how to implement appropriate controls. A thorough pre-operational inspection includes the following steps:

Conduct Ground/Walk-Around Inspection

Job Steps	Importance Narrative (Consider Safety, Production, and Maintenance)	Importance: 1=important 2=very important 3=critical	Satisfactory or Needs Work	Procedures/Risk Resolutions/Notes/Comments
<ul style="list-style-type: none"> • Perform self assessment for readiness to work—communicate w/shifter as necessary • Attend crew line-out • Shifter talks to previous shift/maintenance and passes information to crew--quick exchange of info between operators as necessary • Check weather conditions/forecast • Get duty assignment from shifter • Check for PPE before leaving line-out 				
Check for red tags, operator/maintenance chains				
Check for slip/trip hazards				
Check truck is secured against movement – wheels chocked or in ditch				
Check gen. condition of truck (cosmetic appearance)				

Job Steps	Importance Narrative (Consider Safety, Production, and Maintenance)	Importance: 1=important 2=very important 3=critical	Satisfactory or Needs Work	Procedures/Risk Resolutions/Notes/Comments
<ul style="list-style-type: none"> • Look for mud/rocks under bed and on bed rails • Body pins <ul style="list-style-type: none"> • Body/frame for cracks • Broken or cracked welds • Roll over protection structure (rops) • Suspension cylinder & pins 				
Check for leaks				
Check suspension				
Check pump drive shaft				
Check steering linkage <ul style="list-style-type: none"> • Cylinder • Tie rod ends • Drag links 				
Check tires/wheels <ul style="list-style-type: none"> • Cuts • Damage • Inflation appearance • Rocks between wheels • Missing/damaged mounting hardware • Cracked wheels • Locking ring • Heat & odor 				
Check physical condition/cleanliness of lights				
Check fire suppression system actuator				
Check radiator for debris/damage				
Check for unusual odors/noises/excess heat				
Check cooling air duct work Rear axle housing & mounts				
Check hydraulic shut-off valves				
Check heaters				
Check fluid levels/inspect engine compartment <ul style="list-style-type: none"> • Hydraulic • Coolant • Fuel • Loose wires 				
Check hoses/lines/tubes/fittings for damage <ul style="list-style-type: none"> • Routing (not rubbing) • Excessive wear 				

Job Steps	Importance Narrative (Consider Safety, Production, and Maintenance)	Importance: 1=important 2=very important 3=critical	Satisfactory or Needs Work	Procedures/Risk Resolutions/Notes/Comments
• Missing/loose clamps				
Check ground level emergency shutdown switch				
Check drive belts/guards				
Check and clean rear camera				

On-Machine Inspection

Job Steps	Importance Narrative (Consider Safety, Production, and Maintenance)	Importance: 1=important 2=very important 3=critical	Satisfactory or Needs Work	Procedures/Risk Resolutions/Notes/Comments
Mount machine <ul style="list-style-type: none"> • Maintain 3-point contact • Face ladder 				
Check for safe access to cab <ul style="list-style-type: none"> • Hand holds • Railings • Steps • Decks • Ladders • Doors/latches • Chains 				
Check site glass for coolant				
Check fire extinguisher				
Check electrical system				
Check and clean mirrors/windows				
Check and clean cameras				

In Cab Inspection

Job Steps	Importance Narrative (Consider Safety, Production, and Maintenance)	Importance: 1=important 2=very important 3=critical	Satisfactory or Needs Work	Procedures/Risk Resolutions/Notes/Comments
Check shift selector position				
Check wipers				

Job Steps	Importance Narrative (Consider Safety, Production, and Maintenance)	Importance: 1=important 2=very important 3=critical	Satisfactory or Needs Work	Procedures/Risk Resolutions/Notes/Comments
Check horn				
Check seat belt				
Check lights/turn signals				
Check two-way radio/computer				
Check camera monitor				
Check backup devices				
Adjust seat/steering wheel				
Check warning lights with test switch				
Check cab/health & safety <ul style="list-style-type: none"> • Door seals/latches and acoustical materials • Housekeeping 				
Check fire suppression actuator				
Check heat/air conditioning/defroster				
Fasten seat belt				
Verify gauge operation <ul style="list-style-type: none"> • Engine oil pressure • Engine water temperature • AC drive system temperature • Hydraulic/brake oil temperature • Fuel • Volt meter • Tachometer • Speedometer • Hour meter 				

Complete Defect/Status Report

Job Steps	Importance Narrative (Consider Safety, Production, and Maintenance)	Importance: 1=important 2=very important 3=critical	Satisfactory or Needs Work	Procedures/Risk Resolutions/Notes/Comments
Complete pre-shift inspection sheet				

Duty 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 steps, why they are conducted, any associated risk, and how to implement appropriate controls. Operational steps include:

Monitor Lights & Gauges

Job Steps	Importance Narrative (Consider Safety, Production, and Maintenance)	Importance: 1=important 2=very important 3=critical	Satisfactory or Needs Work	Procedures/Risk Resolutions/Notes/Comments
Monitor lights & gauges				

Maintain Communication

Job Steps	Importance Narrative (Consider Safety, Production, and Maintenance)	Importance: 1=important 2=very important 3=critical	Satisfactory or Needs Work	Procedures/Risk Resolutions/Notes/Comments
Maintain communication <ul style="list-style-type: none"> • Radio • Computers • Eye contact • Horn signals • Hand/lights/turn signals • Spotters • Report hazards/malfunctions/road conditions 				

Traveling Unloaded

Job Steps	Importance Narrative (Consider Safety, Production, and Maintenance)	Importance: 1=important 2=very important 3=critical	Satisfactory or Needs Work	Procedures/Risk Resolutions/Notes/Comments
Release parking brake				
Sound horn/check for clearance				

Job Steps	Importance Narrative (Consider Safety, Production, and Maintenance)	Importance: 1=important 2=very important 3=critical	Satisfactory or Needs Work	Procedures/Risk Resolutions/Notes/Comments
Engage selector switch/signal before moving				
Perform initial movement checks <ul style="list-style-type: none"> • Check emergency steering/brake • Rolling brake test/dynamic retarder function • Service/Secondary brake test • Steering • Front end play • Proper right/left steering 				
Recognize abnormal performance <ul style="list-style-type: none"> • Vibration • Unusual odors/noises • Gauges/indicators 				
Maintain safe speed for conditions <ul style="list-style-type: none"> • Weather • Road • Visibility • Traffic • Do not exceed speed limits 				
Know your blindspots				
Check for road hazards				
Check for highwall hazards and berm height				
Practice defensive driving <ul style="list-style-type: none"> • Awareness for other vehicles • Vehicle spacing • Scan ahead • Seatbelt 				
Traveling on a Grade <ul style="list-style-type: none"> • Use dynamic retarder • Yield to loaded truck 				
Maintain clean windshield				
Use signals				
Count loads				
Accelerate/decelerate smoothly				
Obey traffic signs				
Monitor camera screens/mirrors				

Loading

Job Steps	Importance Narrative (Consider Safety, Production, and Maintenance)	Importance: 1=important 2=very important 3=critical	Satisfactory or Needs Work	Procedures/Risk Resolutions/Notes/Comments
Slow down and be aware in congested areas				
Follow instructions of loading unit operator				
Check mirrors/camera when backing				
Put selector switch in neutral				
Set wheel lock brake switch				
Stay in cab/wear seatbelt				
Look both ways prior to proceeding				
Be aware of surroundings before proceeding				
Release wheel lock brake switch				
Check handling after loading				

Traveling While Loaded

Job Steps	Importance Narrative (Consider Safety, Production, and Maintenance)	Importance: 1=important 2=very important 3=critical	Satisfactory or Needs Work	Procedures/Risk Resolutions/Notes/Comments
Adjust operation for load and conditions				
Use dynamic retarder				
Recognize abnormal performance <ul style="list-style-type: none"> • Driveline noise and vibration • Unusual odors/noises • Gauges/indicators • Tires/handling 				
Maintain safe speed for conditions <ul style="list-style-type: none"> • Weather • Road • Visibility • Traffic • Do not exceed speed limit 				
Know your blind spots				
Check for road hazards				

Job Steps	Importance Narrative (Consider Safety, Production, and Maintenance)	Importance: 1=important 2=very important 3=critical	Satisfactory or Needs Work	Procedures/Risk Resolutions/Notes/Comments
<ul style="list-style-type: none"> • Berm heights • Highwall/stockpile hazards 				
Practice defensive driving <ul style="list-style-type: none"> • Maintain awareness for other vehicles • Vehicle spacing • Scan ahead • Seatbelt 				
Traveling on a grade <ul style="list-style-type: none"> • Use retarder • Know what RSC is • Yield to loaded truck 				
Perform parking brake test – first opportunity				
Use signals				
Accelerate/decelerate smoothly				
Obey traffic signs				
Monitor mirrors and camera screens				

Dumping

Job Steps	Importance Narrative (Consider Safety, Production, and Maintenance)	Importance: 1=important 2=very important 3=critical	Satisfactory or Needs Work	Procedures/Risk Resolutions/Notes/Comments
Enter dump area <ul style="list-style-type: none"> • Ensure adequate area lighting • Enter area in clockwise direction • Maintain awareness for other vehicles • Slow down in congested areas • View dump crest • Inspect the ground surface for cracks • Check for mid -axle high berm along roadway and as dump site restraint • Select a reasonably level area to dump • Avoid softspots and depressions • Do not back up if visibility is impaired • If stockpile isn't attended, dump short 				
Prepare to Dump <ul style="list-style-type: none"> • Back slowly 				

Job Steps	Importance Narrative (Consider Safety, Production, and Maintenance)	Importance: 1=important 2=very important 3=critical	Satisfactory or Needs Work	Procedures/Risk Resolutions/Notes/Comments
<ul style="list-style-type: none"> • Do not impact berm – back square to berm • Keep safe distance between other dumping trucks and dozer (1 truck length) • Set wheel brake lock • Put selector switch in neutral 				
Stay in cab				
Dump when approved <ul style="list-style-type: none"> • Increase rpm to 1500 or what is adequate to clear the load • Raise bed/dump load • Check bed movement • Lower bed completely • Dump short as required • Use caution; watch for spillage • Signal before moving 				
Be aware of abnormal conditions <ul style="list-style-type: none"> • Load hang-up • Off-center loads • Hydraulic hoist failures • Soft spots/cracks/signs of dump movement • Missing berms • Vertical displacement 				

Emergency Procedures/ Abnormal Occurrences/ Non-Routine Procedures

Job Steps	Importance Narrative (Consider Safety, Production, and Maintenance)	Importance: 1=important 2=very important 3=critical	Satisfactory or Needs Work	Procedures/Risk Resolutions/Notes/Comments
Fire				
Medical				
React to panel lights				
Engine stall/power loss <ul style="list-style-type: none"> • On grade • On level 				
Tire failure				

Job Steps	Importance Narrative (Consider Safety, Production, and Maintenance)	Importance: 1=important 2=very important 3=critical	Satisfactory or Needs Work	Procedures/Risk Resolutions/Notes/Comments
Brake failure				
Dynamic retarder failure				
Steering failure				
Strut failure				
Hydraulic lift failure				
Electrical failure				
Contact with powerlines <ul style="list-style-type: none"> • Signal others • Stay in cab or drive away, if possible 				
Sudden loss of visibility – communicate situation <ul style="list-style-type: none"> • Stop • Proceed when visibility allows it 				
Loss of control <ul style="list-style-type: none"> • Skidding • Roll over • Ground failure 				
Other vehicle out of control				

Field Maintenance

Job Steps	Importance Narrative (Consider Safety, Production, and Maintenance)	Importance: 1=important 2=very important 3=critical	Satisfactory or Needs Work	Procedures/Risk Resolutions/Notes/Comments
Fueling – during breaks or shift change. Fueling times indicated by sticker on dash.				

Duty 3: Post-Operational Inspection Procedures

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

Park Truck

Job Steps	Importance Narrative (Consider Safety, Production, and Maintenance)	Importance: 1=important 2=very important 3=critical	Satisfactory or Needs Work	Procedures/Risk Resolutions/Notes/Comments
Enter parking trench from left to right				
Set parking brake				
Place selector in neutral position				
Turn on all lights				
Complete pre-shift form as necessary				
Log off modular mining				
Dismount machine <ul style="list-style-type: none"> • Clean out cab • Observe gauges/indicators for abnormalities • Check ladder • Observe ground condition • Maintain 3-point contact – don't jump • Face ladder 				

Communicate Changes in Operating Conditions

Job Steps	Importance Narrative (Consider Safety, Production, and Maintenance)	Importance: 1=important 2=very important 3=critical	Satisfactory or Needs Work	Procedures/Risk Resolutions/Notes/Comments
Communicate changes in operating conditions <ul style="list-style-type: none"> • Truck • Mine 				