

Company Name:	Equipment/Job Identification: T40 Terex Type of Equipment: Haul Truck Make: 40 Ton Model: TA40 Year: 2001 Use: Underground and Surface
Mine Name:	
Date of Analysis:	

Pre-Assessment

List pre-requisites here:

Duty 1: Pre-Operational Inspection

Learner will demonstrate how to conduct a safe and thorough pre-operational inspection. Learner will also 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

Job Steps	Importance Narrative (Consider Safety, Production, Maintenance)	Importance Ranking 1=Important 2=Very Important 3=Critical	Satisfactory or Needs Work	Procedures/Risk Resolution/ Notes/Comments
Attend Pre-Shift Meeting <ul style="list-style-type: none"> • Talk to Previous Shift • Get Duty Assignment From Supervisor • Perform Self Assessment For Readiness To Work • Check Weather Conditions/Forecast • Check for Red Tags (Lock Out/Tag Out) 				
Check for Slip/Trip Hazards				

Job Steps	Importance Narrative (Consider Safety, Production, Maintenance)	Importance Ranking 1=Important 2=Very Important 3=Critical	Satisfactory or Needs Work	Procedures/Risk Resolution/ Notes/Comments
Check Truck Is Secured Against Movement				
Check General Condition Of Truck <ul style="list-style-type: none"> • Body Pins • Body/Frame For Cracks • Broken Or Cracked Welds • Roll Over Protection Structure (ROPS) • Suspension Cylinder & Pins 				
Check For Leaks				
Check Suspension				
Check Driveshaft				
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 • Missing/Damaged Mounting Hardware • Cracked Wheels • Rocks Between Wheels • Rock Ejectors 				
Check Physical Condition Of External Parking Brake				
Check Physical Condition/Clean Of Lights				
Check Fire Extinguisher/Fire				

Job Steps	Importance Narrative (Consider Safety, Production, Maintenance)	Importance Ranking 1=Important 2=Very Important 3=Critical	Satisfactory or Needs Work	Procedures/Risk Resolution/ Notes/Comments
Suppression System				
Check Radiator for Debris/Damage				
Check For Unusual Odors/Noises/Excess Heat				
Check Air Tank Relief Valve/Drain Water				

On-Machine Inspection

Job Steps	Importance Narrative (Consider Safety, Production , Maintenance)	Importance Ranking 1=Important 2=Very Important 3=Critical	Satisfactory or Needs Work	Procedures/Risk Resolution/ 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 				
Check Fluid Levels/Inspect Engine Compartment <ul style="list-style-type: none"> • Hydraulic • Transmission 				

Job Steps	Importance Narrative (Consider Safety, Production , Maintenance)	Importance Ranking 1=Important 2=Very Important 3=Critical	Satisfactory or Needs Work	Procedures/Risk Resolution/ Notes/Comments
<ul style="list-style-type: none"> • Engine Oil • Coolant • Brake • Fuel • Grease Auto-Lube • Steering Reservoir • Loose Wires 				
Check Hoses/Lines/Tubes/Fittings for Damage <ul style="list-style-type: none"> • Routing (not rubbing) • Excessive Wear • Missing/Loose Clamps 				
Check Drive Belts/Guards				
Check Electrical System				

In Cab Inspection (Engine Off - Ignition On)

Job Steps	Importance Narrative (Consider Safety, Production, Maintenance)	Importance Ranking 1=Important 2=Very Important 3=Critical	Satisfactory or Needs Work	Procedures/Risk Resolution/Notes/ Comments
Check Mirrors/windows				
Check Wipers				
Check Horn				
Check Seat Belt				
Check Lights/Turn Signals				

Job Steps	Importance Narrative (Consider Safety, Production, Maintenance)	Importance Ranking 1=Important 2=Very Important 3=Critical	Satisfactory or Needs Work	Procedures/Risk Resolution/Notes/ Comments
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"> • Door Seals/Latches and Acoustical Materials • Cab Cleanliness (dust & dirt) • Loose Items/ Obstructions Around Controls • Intake Air Filters 				
Check Fire Extinguisher/Suppression				
Check All Controls In Neutral				

In Cab Inspection (Engine On)

Job Steps	Importance Narrative (Consider Safety, Production, Maintenance)	Importance Ranking 1=Importance 2=Very Important 3=Critical	Satisfactory or Needs Work	Procedures/Risk Resolution/ Notes/Comments
Start/Warm up Engine				
Check Heat/Air Conditioning/Defroster Fasten Seat belt				
Verify Instrument Operation				
Check Brakes				

Job Steps	Importance Narrative (Consider Safety, Production, Maintenance)	Importance Ranking 1=Importance 2=Very Important 3=Critical	Satisfactory or Needs Work	Procedures/Risk Resolution/ Notes/Comments
<ul style="list-style-type: none"> • Service Brake • Parking Brake • Secondary Brake 				
Check Retarder Function				
Check Monitoring System <ul style="list-style-type: none"> • Electronic • Oil Pressure Gauge • Air Pressure Gauges • Volt Meter • Engine Temperature 				

Complete Defect/Status Report

Job Steps	Importance Narrative (Consider Safety, Production, Maintenance)	Importance Ranking 1=Important 2=Very Important 3=Critical	Satisfactory or Needs Work	Procedures/Risk Resolution/ Notes/Comments
Complete Defect/Status Report				

Duty 2: Operation

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

Know Your Controls & Gauges

Job Steps	Importance Narrative (Consider Safety, Production, Maintenance)	Importance Ranking 1=Important 2=Very Important 3=Critical	Satisfactory or Needs Work	Procedures/Risk Resolution/ Notes/Comments
Know Your Controls & Gauges <ul style="list-style-type: none"> • Purpose • Location • Use • Normal Ranges 				

Maintain Communication

Job Steps	Importance Narrative (Consider Safety, Production, Maintenance)	Importance Ranking 1=Important 2=Very Important 3=Critical	Satisfactory or Needs Work	Procedures/Risk Resolution/ Notes/Comments
Maintain Communication <ul style="list-style-type: none"> • Radio • Computers • Eye Contact • Signals <ul style="list-style-type: none"> • Hand/Lights/Turn Signals • Spotters • Report Hazards/Malfunctions/Road 				

Driving

<p>Job Steps</p>	<p>Importance Narrative (Consider Safety, Production, Maintenance)</p>	<p>Importance Ranking 1=Important 2=Very Important 3=Critical</p>	<p>Satisfactory or Needs Work</p>	<p>Procedures/Risk Resolution/ Notes/Comments</p>
Release Parking Brake				
Sound Horn/Check For Clearance				
Engage Transmission Signal Before Moving				
Perform Initial Movement Checks Rolling Brake Steering Front End Play Proper Right/Left Steering				
Recognize Abnormal Performance Driveline Noise and Vibration Unusual Odors/Noises Gauges/Indicators				
Maintain Safe Speed For Conditions Weather Road Visibility Traffic				
Know your Blind spots				
Check For Road Hazards				
Check For Highwall Hazards				
Practice Defensive Driving Awareness For Other Vehicles Vehicle Spacing Scan Ahead Seatbelt				
Traveling on a Grade Pre-Select Gear For Grade				

Job Steps	Importance Narrative (Consider Safety, Production, Maintenance)	Importance Ranking 1=Important 2=Very Important 3=Critical	Satisfactory or Needs Work	Procedures/Risk Resolution/ Notes/Comments
Use Retarder • Yield To Loaded Truck				
Monitor Gauges for Proper Operation				
Clean Windshield				
Use Signals				
Count Loads				
Accelerate Smoothly				
Obey Traffic Signs				
Monitor Television Screens				

Loading

Job Steps	Importance Narrative (Consider Safety, Production, Maintenance)	Importance Ranking 1=Important 2=Very Important 3=Critical	Satisfactory or Needs Work	Procedures/Risk Resolution/ Notes/Comments
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				

Job Steps	Importance Narrative (Consider Safety, Production, Maintenance)	Importance Ranking 1=Important 2=Very Important 3=Critical	Satisfactory or Needs Work	Procedures/Risk Resolution/ Notes/Comments
Release Parking Brake				
Look Both Ways Prior To Proceeding				
Signal Before Moving				

Dumping

Job Steps	Importance Narrative (Consider Safety, Production, Maintenance)	Importance Ranking 1=Important 2=Very Important 3=Critical	Satisfactory or Needs Work	Procedures/Risk Resolution/ Notes/Comments
Enter Dump Area Ensure Adequate Area Lighting Maintain Awareness For Other Vehicles Slow Down in Congested Areas Check For Overhead Power lines View Dump Crest <ul style="list-style-type: none"> • Inspect the Ground Surface for Cracks • Check For Mid Axle High Berm • Select a Reasonably Level Area to Dump • Avoid Soft spots and Depressions • Do Not Back Up if Visibility is Impaired 				
Prepare to Dump Use Mirrors/Camera/Spotter When Backing Up Back Up Slowly Ensure Vehicle Is Stable And Level Back Square to the Berm <ul style="list-style-type: none"> • Stop Gradually • Do Not Impact Berm • Keep Safe Distance Between Other Dumping Trucks (1 Truck Length Between Each Truck) Set Brake (Parking Break/Break				

Job Steps	Importance Narrative (Consider Safety, Production, Maintenance)	Importance Ranking 1=Important 2=Very Important 3=Critical	Satisfactory or Needs Work	Procedures/Risk Resolution/ Notes/Comments
Lock) • Put Transmission in Neutral				
Stay in Cab				
Dump When Approved • Increase RPM • Raise Bed/Dump Load • Check Bed Movement • Lower Bed Completely • Dump Short As Required • Signal Before Moving				
Be Aware of Abnormal Conditions Load Hang-up Hydraulic Hoist Failures • Soft Spots				

Emergency Procedures/ Abnormal Occurrences/ Non-Routine Procedures

Job Steps	Importance Narrative (Consider Safety, Production, Maintenance)	Importance Ranking 1=Important 2=Very Important 3=Critical	Satisfactory or Needs Work	Procedures/Risk Resolution/ Notes/Comments
Fire				
Medical				
Critical Malfunctions • React to Panel Lights • Engine Stall/Power Loss On Grade				

Job Steps	Importance Narrative (Consider Safety, Production, Maintenance)	Importance Ranking 1=Important 2=Very Important 3=Critical	Satisfactory or Needs Work	Procedures/Risk Resolution/ Notes/Comments
<ul style="list-style-type: none"> On Level • Drive Shaft • Tire • Brake • Retarder • Steering • Strut • Hydraulic Lift • Electrical • Truck Responses <ul style="list-style-type: none"> Automatic Full Application Of Brakes Emergency Steering Anti-lock Brakes 				
Contact With Power Lines				
Sudden Loss Of Visibility				
Loss of Control <ul style="list-style-type: none"> Skidding Submersion Roll Over Ground Failure 				
Other Vehicle Out Of Control				

Field Maintenance

Job Steps	Importance Narrative (Consider Safety, Production, Maintenance)	Importance Ranking 1=Important 2=Very Important 3=Critical	Satisfactory or Needs Work	Procedures/Risk Resolution/ Notes/Comments
Fueling				
Greasing				
Drive Lines				
Hydraulics				
Tire Maintenance				
Blocking Techniques				
Towing				
Pressure Wash/Steam Clean				
Battery				
Changing Fluids Antifreeze Break Fluid • Engine Oil				

Duty 3: Post-Operational Inspection

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

Observe Gauges/Indicators

Job Steps	Importance Narrative (Consider Safety, Production, Maintenance)	Importance Ranking 1=Important 2=Very Important 3=Critical	Satisfactory or Needs Work	Procedures/Risk Resolution/ Notes/Comments
Observe Gauges/Indicators				

Park Truck

Job Steps	Importance Narrative (Consider Safety, Production, Maintenance)	Importance Ranking 1=Important 2=Very Important 3=Critical	Satisfactory or Needs Work	Procedures/Risk Resolution/ Notes/Comments
Set Parking Brake Place Controls in Neutral Position Idle Down/Cool Down Engine Stop Engine/Turn Off Electrical Power Lights Master Switch Battery Disconnect Switch Dismount Machine				

Job Steps	Importance Narrative (Consider Safety, Production, Maintenance)	Importance Ranking 1=Important 2=Very Important 3=Critical	Satisfactory or Needs Work	Procedures/Risk Resolution/ Notes/Comments
<ul style="list-style-type: none"> • Clean Out Cab • Check Ladder • Observe Ground Condition • Maintain 3-Point Contact • Face Ladder 				

Conduct Walk Around Inspection

Job Steps	Importance Narrative (Consider Safety, Production, Maintenance)	Importance Ranking 1=Important 2=Very Important 3=Critical	Satisfactory or Needs Work	Procedures/Risk Resolution/ Notes/Comments
Drain Water From Air Tank				
Chock Truck				
Look for Liquid Fluid Leaks				
Plug In Block Heater				

Communicate Changes In Operating Conditions

<p>Job Steps</p>	<p>Importance Narrative (Consider Safety, Production, Maintenance)</p>	<p>Importance Ranking 1=Important 2=Very Important 3=Critical</p>	<p>Satisfactory or Needs Work</p>	<p>Procedures/Risk Resolution/ Notes/Comments</p>
<p>Communicate Changes In Operating Conditions Truck • Mine</p>				