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| Company Name: | Equipment Identification: RT 700E Type of Equipment: 60-ton crane Make: Grove Model: RT 760E Year: |
| Mine Name: | |
| Date of Analysis: | |

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

| Job Steps | Importance Narrative (Consider Safety, Production, and Maintenance) | Importance Ranking 1=Important 2=Very Important 3=Critical | Satisfactory or Needs Work | Procedures/Risk Resolution/ Notes/Comments |
|---|--|---|---|---|
| Conduct Ground/ Walk Around Inspection <ul style="list-style-type: none"> Attend Pre-Shift Meeting 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 Check to make sure crane Is Secured Against Movement Check General Condition Of Crane <ul style="list-style-type: none"> Body/Frame For Cracks Broken Or Cracked Welds 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 | | | | |

| Job Steps | Importance Narrative (Consider Safety, Production, and 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"> 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 Radiator for Debris/Damage Check For Unusual Odors/Noises/Excess Heat Check Air Tank Relief Valve/Drain Water | | | | |
| <ul style="list-style-type: none"> On-Machine Inspection Mount Machine Face Ladder Check For Safe Access To Cab Hand Holds Railings Steps Decks Ladders Doors/Latches Check Fluid Levels/Inspect Engine Compartment Hydraulic Transmission Engine Oil Coolant Brake Fuel Grease Auto-Lube Steering Reservoir | | | | |

| Job Steps | Importance Narrative (Consider Safety, Production, and Maintenance) | Importance Ranking 1=Important 2=Very Important 3=Critical | Satisfactory or Needs Work | Procedures/Risk Resolution/ Notes/Comments |
|--|--|---|---|---|
| Loose Wires Check Hoses/Lines/Tubes/Fittings for Damage Routing (not rubbing) Excessive Wear Missing/Loose Clamps Check Drive Belts/Guards Check Electrical System | | | | |
| In Cab Inspection (Engine Off - Ignition On) Check Mirrors/windows Check Wipers Check Horn Check Seat Belt Check Lights/Turn Signals Check Two Way Radio/Computer Check Backup Devices Check Emergency Steering Adjust Seat/Steering Wheel Check Indicators With Test Switch Check Cab/Health & Safety 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) Start/Warm up Engine Check Heat/Air Conditioning/Defroster Fasten Seat belt Verify Instrument Operation Check Brakes Service Brake | | | | |

| Job Steps | Importance Narrative (Consider Safety, Production, and Maintenance) | Importance Ranking 1=Important 2=Very Important 3=Critical | Satisfactory or Needs Work | Procedures/Risk Resolution/ Notes/Comments |
|---|--|---|---|---|
| Parking Brake Secondary Brake Check Retarded Function Check Monitoring System Electronic Oil Pressure Gauge Air Pressure Gauges Volt Meter Engine Temperature | | | | |
| Complete Defect/Status Report | | | | |

Duty 2: Operation

Learner will be able to demonstrate how to safely and productively operate the crane. 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:

| Job Steps | Importance Narrative (Consider Safety, Production, and Maintenance) | Importance Ranking 1=Important 2=Very Important 3=Critical | Satisfactory or Needs Work | Procedures/Risk Resolution/ Notes/Comments |
|--|--|---|----------------------------|--|
| Know Your Controls & Gauges Purpose Location Use Normal Ranges | | | | |
| Maintains Communication Radio Computers Eye Contact Signals Hand/Lights/Turn Signals Spotters Report Hazards/Malfunctions/Road Conditions | | | | |
| Loading Maintain Awareness For Other Vehicles Slow Down in Congested Areas Check Mirrors/Camera When Backing Put Transmission in Neutral Set Brake (Parking Break/Break Lock) Stay in Cab/Wear Seatbelt Check Load Scale Release Parking Brake Signal Before Moving | | | | |
| Emergency Procedures/ Abnormal Occurrences/ Non-Routine Procedures Fire Medical Critical Malfunctions React to Panel Lights | | | | |

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|---|--|--|--|--|
| <ul style="list-style-type: none"> Engine Stall/Power Loss On Grade On Level Drive Shaft Tire Brake Retarded Steering Strut Hydraulic Lift Electrical Automatic Full Application Of Brakes Emergency Steering Anti-lock Brakes Contact With Power Lines Sudden Loss Of Visibility Loss of Control Skidding Submersion Roll Over Ground Failure Other Vehicle Out Of Control | | | | |
| <ul style="list-style-type: none"> Field Maintenance Fueling Greasing Drive Lines Hydraulics Tire Maintenance Blocking Techniques Towing Pressure Wash/Steam Clean Battery Changing Fluids Antifreeze Break Fluid Engine Oil | | | | |

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:

| Job Steps | Importance Narrative (Consider Safety, Production, and Maintenance) | Importance Ranking 1=Important 2=Very Important 3=Critical | Satisfactory or Needs Work | Procedures/Risk Resolution Notes/Comments |
|--|--|---|----------------------------|---|
| Observe Gauges/Indicators | | | | |
| Park crane 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 Clean Out Cab Check Ladder Observe Ground Condition Maintain 3-Point Contact Face Ladder | | | | |
| Conduct Walk Around Inspection Drain Water From Air Tank Look for Liquid Fluid Leaks Plug In Block Heater | | | | |
| Communicate Changes In Operating Conditions Mine | | | | |

