

# Picker Truck Operator -Role&Responsibilites + Training Checklist

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# Picker Truck Operator -Role&Responsibilites + Training Checklist

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### **SKILLS AND ABILITIES**

Successful picker truck operators are capable decision-makers who are prepared to work independently when necessary. They also enjoy the comradery of being part of a team and traveling to different locations. They often like variety in their work.

To be successful picker truck operators must have:

- · coordination and manual dexterity
- the ability to work at heights
- the strength, stamina, and ability to use proper lifting techniques to lift items weighing in excess of 25 kilograms
- good vision
- the ability to work as part of a team and communicate with ground crews, usually using hand signals and voice communication

#### STANDARD WORKPLACE SAFETY

- 1. Demonstrate the ability to apply the Occupational Health and Safety Act, Regulation and Code.
- 2. Explain the role of the employer and employee in regard to Occupational Health and Safety (OH&S) regulations, Worksite Hazardous Materials Information Systems (WHMIS), fire regulations, Workers Compensation Board regulations, and related advisory bodies and agencies.
- 3. Explain industry practices for hazard assessment and control procedures.
- Describe the responsibilities of workers and employers to apply emergency procedures.
- 5. Describe positive tradesperson attitudes with respect to housekeeping, personal protective equipment and emergency procedures.
- 6. Describe the roles and responsibilities of employers and employees with respect to the selection and use of personal protective equipment (PPE).
- 7. Select, use and maintain appropriate PPE for worksite applications.

# **CLIMBING, LIFTING, RIGGING AND HOISTING**

- 1. Select, use and maintain specialized PPE for climbing, lifting and load moving equipment.
- 2. Describe manual lifting procedures using correct body mechanics.
- 3. Describe rigging hardware and the safety factor associated with each item.
- 4. Select the correct equipment for rigging typical loads.
- 5. Describe hoisting and load moving procedures.

### **HAZARDOUS MATERIALS & FIRE PROTECTION**

- 1. Describe the roles, responsibilities features and practices related to the workplace hazardous materials information system (WHMIS) program.
- 2. Describe the three key elements of WHMIS.
- 3. Describe handling, storing and transporting procedures when dealing with hazardous material.
- 4. Describe safe venting procedures when working with hazardous materials.
- 5. Describe fire hazards, classes, procedures and equipment related to fire protection.



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### PICKER TRUCK COMPONENTS AND FUNCTIONS

- 1. **Identify** the structural and operational characteristics of picker trucks:
  - 1. telescoping (stiff) boom
  - 2. articulating boom
- 2. **Identify** and describe the components of boom trucks and their functions (for stiff boom and articulating boom):
  - truck chassis: rear/front stabilizers, turret or pedestal (including mounting bolts) swing circle, base or heel section, telescopic powered and manual boom sections boom extensions (jibs), main hoist
  - 2. Boom- Boom section, telescoping sections, pinned sections, boom extension cylinders, boom lift cylinders, boom wear pads, rest (cradle)
  - Jib
  - 4. Outriggers: beams, Jacks, cylinders, pads,
  - 5. Swing Assembly: rotation bearing (slewing ring, swing circle, ball race)
  - 6. Carrier: frame, mounting bolts, counterweights
  - 7. Control System

### PICKER TRUCK MAINTENANCE

- 1. Maintain equipment (including some adjustments) as specified by the manufacturer, which includes:
- 2. tires maintain correct inflation, repair/report any damage before permanent damage occurs report when tires need replacing, tighten wheel lugs if loose
- 3. Identify Lubrication points on boom truck
- 4. Conduct basic housekeeping duties
- 5. Check for leaks and fluid levels
- 6. Check Swing gear box
- 7. Check mounting bolts
- 8. Describe the functions, characteristics, types, and classification of lubricants.
- 9. Interpret manufacturer's manual to determine:
  - 1. types of lubricants
  - 2. method of lubrication
  - 3. lubrication schedule
- 10. Identify the lubrication points for each component.
- 11. Identify and demonstrate use of:
  - 1. hand-operated guns and oilers
  - 2. pneumatic and pressurized equipment
  - 3. mobile lubricators and dispensers

### PICKER TRUCK HYDRAULIC SYSTEMS

- 1. Describe the basic principles of operation of an hydraulic system:
- 1. pumps and motors
- 2. cylinders
- 3. circuits
- 4. Describe the transmission of engine power through hydraulic power to such functions as:
  - 1. swinging/slewing
  - 2. boom up/down
  - 3. hydraulic boom extension and retraction
  - 4. hydraulic pumps and motors
- 5. Identify the following components of a basic hydraulic system:
  - 1. reservoirs
  - 2. pumps
  - 3. control valves
  - 4. relief valves (port and main)
  - 5. connecting hoses



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- 6. cylinders check and holding valves
- 7. motors
- 8. gauges
- 9. filters/strainers suction, pressure and circuit coolers
- 10. hydraulic oil coolers
- 6. Determine the effects of cold weather and contaminants in the system.

#### PICKER TRUCK LOG BOOK

- 1. Describe the steps required to maintain an equipment log book as per owner's instructions and in accordance with the Occupational Health and Safety Act.
- 2. Record usage and work location of equipment as required by the owner.

# BOOM TRUCK CHECKS IN THE YARD (BEFORE STARTING THE ENGINE)

- 1. Describe the process for conducting checks in the yard (before starting the engine).
- 2. Use and interpret manufacturer's manual to determine:
  - 1. inspection procedures
  - 2. inspection schedule
  - 3. items to inspect
    - 1. all fluids at sufficient levels, including fuel, crankcase oil, coolant, hydraulic
    - 2. battery electrolyte level correct
    - 3. belts, radiator hoses in place and not damaged or frayed
    - 4. visual check for loose bolts/mountings around engines
    - 5. coolant or oil leaks
    - 6. air cleaner and connections secure
    - 7. drain cocks closed
  - 4. location of items to inspect
  - 5. location and function of control panel gauges
  - 6. evidence of vandalism
  - 7. safety guards in place
- 3. Conduct pre-operational checks using tools such as:
  - 1. wheel wrench
  - 2. tire gauge

# PICKER TRUCK CHECKS IN THE YARD (WITH THE ENGINE RUNNING)

- 1. Describe the process for conducting checks in the yard (with engine running).
- 2. Demonstrate the pre-operational checks to be made while the boom truck is running, engine brought up to operating temperature, and with boom truck on firm base:
- 3. Explain the importance of checks prior to starting the engine.
  - 1. Engine operation
    - 1. oil pressure—normal gauge reading
    - 2. temperature—normal gauge reading
    - 3. battery—not discharging, ammeter/voltmeter reading normal
    - 4. air cleaner indicators—normal reading
  - 2. air systems
- 4. pressure correct for operation



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- 5. hoses—check for cuts, abrasions and bulging, ensure tight and leak-proof
- 6. tanks, dryers
  - 3. hydraulic system
- 7. check for oil leaks
- 8. filters: check gauge/warning light/alarm
- 9. hoses check for cuts, abrasions and bulging, ensure tight and leak-proof
- 10. reservoirs
- 11. All picker truck controls operational (e.g. hoist, swing, boom telescoping, lower/raise load line, swing brake, travel lock (if equipped))
- 12. test anti-two-blocking devices by raising hook until contact is made
- 13. back up alarm, warning flashers, bells or horns
- ensure hydraulic boom will telescope with sections extending equally or sequentially as per manufacturer's instructions
- 15. Load weighing or moment devices are operational safety and warning devices are operational
  - wire rope—check for wear and replace where necessary (replacement criteria is defined by manufacturer's specifications and ANSI codes)
  - tires—check for cuts, abrasion and wear, adequate pressure
  - braking system (service brake check, emergency and/or parking brakes are operational )
- 6. steering operational, correct alignment, and without excessive slackness lighting is operational, includes
- 7. dash/control panels
- 8. floodlights
- 9. headlights
- 10. dome lights
- 11. running/clearance
- 12. back-up lights
- 13. fastening devices on boom—pins and keepers in place hooks and hook blocks
- 14. hook—check for cracks and deformation, hook should rotate freely
- 15. sheaves—check for excessive wear and rotating freely

# TRANSPORTING AND LEAVING PICKER TRUCK UNATTENDED

- 1. Prepare picker trucks for transportation by following manufacturer's instructions, which include:
  - 1. remove parts and attachments to comply with highway regulations (counterweights if necessary)
  - 2. if machine is rigged, tie hook block down and tightening hook block down sufficiently to prevent excessive movement during travel
  - 3. secure the load with proper tie-downs
  - 4. set all brakes, latches and house locks
  - 5. disengage pump (PTO)
  - 6. lock doors and panels
- 2. Demonstrate procedures for leaving the boom truck unattended when it is set up to do a job by following manufacturer's instructions, codes and statutes, which include:
  - 1. landing any attached loads
  - 2. setting all brakes and locking devices
  - 3. securing the unit against accidental travel and unexpected movement by the use of blocking and parking brake
  - 4. disengage pump
  - 5. park on a level and stable area
  - 6. retract hydraulic booms and lower into cradle
  - 7. shut off power source(s)/master switch



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8. lock and secure vehicle, equipment, bins and storage containers

# OPERATING AND HOISTING (SAFETY AND HAZARDOUS SITUATIONS)

- 1. Identify the responsibility of each person regarding operating procedures for a lift:
- 2. crane operator
- 3. rigger
- 4. signal person
- 5. site supervisor
- 6. maintenance person(s)
- 7. crane owner
- 8. Perform trade calculations: mentally, on paper, or with a calculator
- 1. add
- 2. subtract
- 3. multiply
- 4. divide
- 5. order of operations
- 6. fractions
- 7. convert fractions to decimals
- 8. percentages
- 9. convert feet and inches into feet
- 10. determine the area and volume of geometric shapes (including rectangles,
  - 1. triangles, cubes (metric and imperial)
- 11. circumference and area of circles
- 12. imperial and metric conversion
  - 3. Use accepted industry formulas for the items listed
- 13. load weights
- 14. load distribution
- 15. effect of sling angle
- 16. sheave friction
- 17. number of parts of line required calculate safe working loads for slings
- 4. Identify and describe how cranes can be overloaded by:
- 5. lifting loads in excess of their gross capacity
- 6. booming down and increasing load radius
- 7. telescoping out and increasing load radius
- 8. shock loading
- 9. Describe and demonstrate the correct way to raise or lower the load, boom and swing the load including points such as:
  - 1. raising
  - 2. lowering
  - 3. swinging
  - 4. releasing the load
  - 5. raising and lowering booms
  - 6. telescoping hydraulic booms
  - 7. no impact
  - 8. no overloading
  - 9. no excessive side loading
  - 10. no free fall
  - 11. no swing-out
  - 12. allowance made for wind
  - 13. allowance for boom deflection (loading/unloading)
- 10. Define and describe static load vs. dynamic load.
- 11. Describe the process for releasing the load without impact.



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- 12. Describe how to protect personnel in the vicinity of the lift by:
  - 1. avoiding swinging over people/property if possible
  - 2. using barricades
  - 3. using job rules and Alberta Occupational Health and Safety Act
  - 4. ensuring that when welding is being done
    - 1. the boom truck is properly grounded
    - 2. welding cables are not dragged across the machine
  - 5. Describe the operation of the crane around high voltage equipment.
    - 1. interpret provincial statutes and codes to determine procedures to use when working around high voltage equipment
    - 2. describe how to operate around high voltage equipment considering
      - 1. limits of approach—defined by statutes
      - 2. location of personnel
        - 1. only required personnel to be in area of lift
        - 2. no one is to be simultaneously touching boom truck or load and ground
        - 3. notification of local utility company when and where boom truck is to be working use of designated signal person(s)
      - 3. Describe procedures to follow if electrical contact is made:
        - 1. operator remains at controls
        - 2. warn people away
  - remove contact if possible
- 1. escape procedures if necessary
- 2. inspect boom truck for damage (recertification)
- 9. Describe and demonstrate communication during the lift:
  - 1. communication with job supervisors about general job procedures
  - 2. audio signals to lift, move, lower, and position various loads when loads are out of view of operator
  - 3. types and characteristics of audio communicators
  - 4. proper operation of audio communicators
- 10. Recognize crane and hoist operation terminology and movements.
- 11. Use hand signals to lift, move, lower, and position loads when loads are out of view of the operator.
- 12. Use and interpret international hand signals and determine their application for picker truck and hoist operations.
- 13. Use and interpret horn signals.
- 14. Describe how a signal-person must be identified.
- 15. Assess factors that influence the capacity of a boom truck (articulating and telescoping)
- 16. Describe set-up conditions affecting boom truck capacity, such as:
  - 1. off-centre reeving
  - 2. equipment condition
  - 3. off-level boom truck
  - 4. outrigger extension
  - 5. effect of firm base
  - 6. definition of a firm base
  - 7. hook placement
- 17. Describe operating conditions affecting boom truck capacity, such as:
- 18. side loading
- 19. impact loading
- 20. swing-out
- 21. swing rate
- 22. weather
  - 1. wind
  - 2. cold
  - moisture
- 1. ice and snow
- 1. machine configuration



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- 2. base configuration
- 3. load radius
- 4. vertical hoist line
- 5. dynamic loading caused by rapid hoisting or lowering

#### PRINCIPLES OF LEVERAGE

- 1. Describe the principles of leverage and the relationship between leverage and stability.
- 2. Define the following terms:
  - 1. leverage of a crane
  - 2. leverage of a load
  - 3. tipping axis
  - 4. centre of rotation
  - 5. centre of gravity
- 3. Identify the symbol for centre of gravity.
- 4. Identify and determine the centre of gravity for major boom trucks:
  - 1. centre of gravity of a crane
  - 2. centre of gravity of a load
  - 3. centre of gravity location during rotation of upper works
- 5. Define fulcrum and how it applies to crane operation.
- 6. Describe the basic mechanical advantage of leverage systems and the leverage systems used in craning:
  - 1. class 1 lever
  - 2. class 2 lever
  - 3. class 3 lever
- 7. Describe the load leverage principles including:
  - 1. leverage and stability
  - 2. stability vs. instability
  - 3. effect of tipping axis location on stability and capacity
- 8. Describe changes in crane leverage during rotation of upper works:
  - 1. most stable area
  - 2. less stable area
  - 3. least stable area
- 9. Describe changes in crane capacity during rotation of upper works for:
  - 1. greatest capacity
  - 2. less capacity
  - 3. least capacity
- 10. Describe the load moment for:
  - 1. tipping moment
  - 2. resisting moment
- 11. Describe the tipping axis location as the upper structure rotates.
- 12. Describe forward stability rating in percentage of tipping.
- 13. Describe backward stability for a Picker truck.
- 14. Describe static load vs. dynamic load.
- 15. Describe the effect of the load on the boom:

## **AREAS OF OPERATION**

- 1. Describe the importance of areas for operation for picker trucks.
- 2. Identify the sweep area.
- 3. Describe the division of sweep area into quadrants.
- 4. Describe and identify working areas.



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### LOADS CHARTS

- 1. Describe how the factors listed below affect load chart conditions:
  - 1. boom length
  - 2. operating radius
  - 3. boom angle
  - 4. boom truck configuration
  - 5. load weight
- 2. Explain the difference between gross capacity and net capacity.
- 3. Explain the difference between gross load and net load.
- 4. Describe the difference between:
  - 1. tipping capacity
  - 2. structural capacity

#### OPERATING PROCEDURES

- 1. Explain and interpret lift study drawings.
- 2. Inspect access to the picker truck site to ensure area is compacted, graded and free from hazards:
  - 1. access roads adequate
  - 2. operating locations firm and level
  - 3. operating locations away from trenches and/or underground hazards
  - 4. blocking and/or hardwood mats available
  - 5. operating locations away from power lines
  - 6. sufficient room for crane erection
  - 7. access to site restricted to authorized personnel
  - 8. competent personnel only (rigging crew)
- 3. Determine the crane configuration and attachments required for the lift taking into consideration precalculated gross load in accordance with manufacturers' manuals, OH & S policy.
- 4. Determine proper set up location.
- 5. Locate the truck on firm level ground with outriggers extended and stabilizers set:
  - 1. correct outrigger use (set up)
  - 2. as per manufacturer's recommendation
  - 3. pads on firm footing
  - 4. pads to be at right angle and secured
  - 5. beams extended to manufacturer's specifications
- 6. Demonstrate calculations of maximum outrigger loadings( use outrigger pad blocking to reduce ground pressure)
- 7. Describe procedures necessary when temperatures fall within cold weather operations parameters:
- 8. avoid maximum capacity lifts
- 9. slow down cycle of operation
- 10. no dynamic or shock loading of any structural components
- 11. proper warm up of hydraulic system
- 12. slow, smooth and infrequent lifting and only if necessary
- 13. lifting as per manufacturer's charts

### OPERATING PROCEDURES

- 1. Identify weights of loads using available means:
- 2. information shown on load
- 3. source of weight information, e.g. drawings, shipping bills, catalogues, etc.
- 4. use of load weighing devices
- 5. estimating weight using accepted industry formulas (volume, density and area)
- 1. Demonstrate the use of a lift study to perform a set-up.
- 2. Determine the centre of gravity of the load:
  - 1. stable vs. unstable
  - 2. relative to rigging position and sling force



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- 3. centre of gravity of load under crane hook
- 3. Define and determine a critical lift: (shell defined this as anything over 50% of the capacity of the Truck, not sure if this applies to you J
  - 1. precautions to be taken
  - 2. lift study
- 4. Demonstrate use of boom angle indicators (exact radius over boom angle)
- 5. Identify reasons for slack rope on drums and uneven spooling including:
  - 1. rope incorrectly installed on the drum
  - 2. incorrect fleet angle
  - 3. sheaves poorly lubricated
  - 4. sheaves stiff due to cold weather
  - 5. effect of wind on the hoist line (side wind)
  - 6. sudden stop as load is being hoisted
  - 7. hook block or headache ball too light
  - 8. sudden change in rope tension
    - 1. excessive speed when lowering hook block or headache ball
  - 9. Demonstrate procedures to protect personnel during the lift:
    - 1. between upper works and carrier
    - 2. swing area of crane during operation
    - 3. outrigger jacks during lowering
    - 4. extending and retracting outrigger beams
  - 10. Demonstrate safety procedures when working near power lines:
    - 1. operator responsibility
    - 2. site supervisor responsibility
    - 3. pre-job planning
    - 4. rules and regulations (OH & S)
    - 5. maintaining a safe distance
    - 6. in the event of contact
    - 7. bailout procedure
    - 8. working near transformers
  - 11. Describe the effect on the boom when the following happens:
    - 1. load contacting boom
    - 2. boom touching or resting on structure
    - 3. boom design (compression vs. bending)
  - 12. Describe how two-blocking happens and the results:
    - 1. telescoping or lowering boom
    - 2. hook block or headache ball pull into boom tip sheaves
  - 13. Describe how to telescope the booms following manufacturer's instructions:
    - 1. powered section extended equally
    - 2. newer cranes designed for sequencing of boom sections
    - 3. use of manually telescoping sections
  - 14. Interpret and use international signals designed for hoisting operations:
    - 1. use and interpret hand signals
    - 2. use audio or radio signals
  - 15. Identify and describe procedures and precautions when working with jibs:
    - 1. jib offset to main boom
    - 2. safe operating procedures with long booms and jibs
    - 3. jib capacity (strength or tipping rating)
  - 16. Describe the effects and causes of overloading:
    - 1. tipping failure
    - 2. structural failure
    - 3. mechanical failure
  - 17. Demonstrate the correct outrigger use (set up):
    - 1. tires off the ground as per manufacturer
    - 2. pads on firm footing
    - 3. pads to be at right angle and secured
    - 4. beams extended to manufacturer's specifications
  - 18. Identify safe ground stability for the operation of a boom truck:
    - 1. crane and ground pressure calculations



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- 2. outrigger pads blocking to reduce ground pressure
- 19. Demonstrate proper procedures to level the crane with ground by raising or lowering the outrigger jacks, blocking, and ensuring crane is level using a levelling device:
  - 1. in the cab level
  - 2. on the carrier deck level
  - 3. on the base of turntable (carpenter's level)
  - 4. using hoist line

## **BOOM TRUCK SET UP (PRACTICAL)**

- 1. Demonstrate proper set up for boom trucks:
- 1. minimum swing clearance
- 2. outrigger beams fully extended (most boom trucks)
- 3. pads set on firm footing
- 4. boom truck level
- 5. know weight of load
- 6. know radius of lift
- 7. centre of gravity of load in line with hoist line
- 8. site inspection for hazards
- 9. Describe safety procedures involved in rigging up or rigging down boom trucks.
- 10. Demonstrate procedures of rigging up or rigging down for boom trucks.
- 11. Demonstrate how to measure the load radius.
- 12. Determine the total load from the net load.
- 13. Apply the total load to the values in the load capacity chart, area diagram and range diagram, to determine where the load can be placed prior to and after hoisting.
- 14. Determine maximum radii at which given weights may be safely handled.
- 15. Operate the equipment in a safe, smooth and controlled manner.
- 16. Describe the following workplace coaching skills used for training apprentices:
  - 1. identify the point of the lesson
  - 2. link the lesson
  - 3. demonstrate a skill
  - 4. provide opportunity to practice a skill
  - 5. give feedback to the learner
  - 6. assess the learner's progress

# SAFE RIGGING PRACTICES AND RIGGING PROCEDURES

- 1. Identify types of rigging hardware:
  - 1. shackles
  - 2. wire ropes
  - 3. slings
  - 4. turnbuckles
  - 5. come-along
  - 6. choker hooks
  - 7. spreader bars
  - 8. equalizer beams
  - 9. chain hoists
  - 10. sheaves
  - 11. hooks
  - 12. rings, links and swivels
  - 13. eye bolts and lugs
  - 14. wire rope blocks
  - 15. snatch block
- 2. Describe and demonstrate the uses of spreader bars, including:
  - 1. purpose



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- 2. effect on horizontal forces on the load
- 3. Explain and demonstrate the use of taglines to control the load.
- 4. Describe how loading is equalized by using such devices as:
  - 1. turnbuckles
  - 2. come-along or chain hoist
  - 3. safety slings (used with come-along and chain hoist)
- 5. Describe and demonstrate procedures for rigging boom trucks from:
  - 1. wire rope on drums of boom truck
  - 2. wire rope on reels
- 6. Describe and demonstrate methods of reeving and lacing.
- 7. Identify and describe types and configurations for slings including:
  - 1. wire rope slings
  - 2. nylon web slings
  - 3. polyester and Kevlar
  - 4. metal mesh slings
  - 5. chain slings
- 8. State the design factor for slings.
- 9. Recognise and demonstrate the use of various sling arrangements.
  - 1. single vertical hitch
  - 2. bridle hitch
  - 3. single basket hitch
  - 4. double basket hitch
  - 5. double wrap basket hitch
  - 6. single choker hitch
  - 7. bridle choker hitch
  - 8. double wrap choker hitch
- 10. Describe materials and constructions used in slings, such as:
  - 1. Synthetic (Nylon web, Round Sling, Twin path)
  - 2. Steel (wire rope) ( Grommet, eye to eye, eye to hook)
  - 3. Chain( master link to master link, masterlink to hook, multiple chains on masterlink to masterlink or hooks alloy steel)
- 11. Explain the advantages and disadvantages of slings made from:
- 12. synthetic materials
- 13. wire rope
- 14. chain



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