

## TRAINING OUTLINE

COURSE TITLE:	DATE:	INSTRUCTOR:
LOCATION:	TIME:	COMPANY:

Safety training was conducted on the above date by the instructor indicated. The following line items identify the topics covered during the training session.

### **SUMMARY OF TRAINING**

- 1) Introduction
  - a) Standards
  - b) Why Training
- 2) Anatomy & Components
  - a) Inspections
  - b) Inside the Crane The Cab
  - c) Controls
  - d) Cab cont.
  - e) Charts & Indicators
  - f) Level
  - g) Labels
  - h) Hand Signal Charts
  - i) Engine Compartment
  - i) Crane Structure
  - k) Revolving Superstructure
  - I) Counterweights
  - m) Rotation Bearings
  - n) Bolts
  - o) Undercarriage
  - p) Tires
  - q) Track System
    - i. Track & Chain Assembly
    - ii. Chain Assembly
    - iii. Rollers
    - iv. Rock Guards
    - v. Sprockets & Idlers
    - vi. Tracks cont.
    - vii. Outriggers
  - r) Boom
    - i. Boom Tip

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- ii. Jib & Extension
- iii. Boom Stops
- iv. Gantry or Live Mast
- v. Bridle Assembly
- vi. Tackle & Reeving
- vii. Boom Pendants
- viii. Winch & Drum
- ix. Anti-Two-Block Switch
- x. Wedge Socket
- xi. Crane Block
- xii. Hook Assembly
- xiii. Headache Ball
- xiv. Hook
- xv. Rigging Gear
- s) Wire Rope
  - i. Crushing
  - ii. Lay
  - iii. Broken Strands
  - iv. Fatigue Breaks
  - v. Tensile Breaks
  - vi. Bad Spooling
  - vii. Kinking
  - viii. Bird-caging
  - ix. Lubricating Wire Rope
- 3) Stability Principles
  - a) Stability
    - i. Leverage
  - b) Load Charts
    - i. Range Diagram
    - ii. Load Capacity
    - iii. Line Configuration
    - iv. Area of Operation
    - v. Deductions
    - vi. Boom Length
    - vii. Capacity Chart
- 4) Rigging Considerations
  - a) Typical Rigging Hardware
    - i. Lifting Hardware

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- ii. Synthetic Slings
- iii. Round Slings
- iv. Rope Slings
- b) Inspections
  - i. Damaged Slings
  - ii. Capacity
  - iii. Chain Slings
  - iv. Basic Rigging Practices
  - v. Weight of the Load
  - vi. Load's Center of Gravity
  - vii. Sling Angles
  - viii. Basic Hitches

#### 5) Safe Operations

- a) Planning
- b) Assembling the Crane
  - i. Basic Assembly
  - ii. Jib Assembly
- c) Know Your Crane and Worksite
  - i. Set Up Considerations
  - ii. Load Charts
  - iii. Side Loading
  - iv. Travel Alarms
- d) Communication
  - i. Hand Signals

#### 6) Common Hazards

- a) Critical Lifts
- b) Lift Near Water
- c) Floating Cranes
- d) Two-Crane Pick
- e) Pre-Lift Meetings
- f) Common Hazards
  - i. Working Around Power Lines
  - ii. Electrocution
  - iii. Outrigger Hazards
  - iv. Soil Types
  - v. Overloading
  - vi. Load Measurement Systems
  - vii. Two-Blocking the Crane



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viii.	Hoisting Personnel
	Obstructed Vision
7) Conclusion	