



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) What is Rigging?
- b) Standards
- c) Why Training

2) Definitions

- a) Sling
- b) Center of Gravity
- c) Side Loading
- d) Pick Point
- e) Sling Angle
- f) Sling Hitch
- g) Load Control
- h) North-South Control
- i) East-West Control
- j) Capacity
- k) Reduction

3) Sling Types

- a) Synthetic Slings
 - i. Synthetic Flat Slings
 - ii. Synthetic Round Slings
 - iii. Synthetic Fiber Rope Slings
 - iv. Type of Rope Slings
 - v. Safe Working Load
 - vi. Knots
- b) Inspecting Slings
 - i. Capacity Tags
 - ii. Punctures and Snags
 - iii. Heat Damage
 - iv. UV Light
 - v. Chafing



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- vi. Inspecting Flat Slings
 - vii. Inspecting Round Slings
 - viii. Inspecting Rope Slings
 - c) Wire Rope Slings
 - i. Inspection
 - ii. Swage
 - d) Chain Slings
 - i. Chain Sling Inspection
 - ii. Record Keeping
- 4) Hardware**
 - a) Rigging Card
 - b) Shackles
 - i. Shackle Components
 - ii. Anchor Shackles
 - iii. Chain Sling Shackle
 - iv. Synthetic Sling Shackle
 - v. Shackle Pin Types
 - vi. Screw Pin
 - vii. Bolted Type
 - viii. Shackle Identification
 - ix. Rigging Practices
 - x. Applying a Load
 - c) Inspecting Shackles
 - i. Heat Damage
 - ii. Shackle Pins
 - iii. Round Pins
 - d) Eye Bolts
 - i. Eye Bolt Identification
 - ii. Angles
 - iii. Placement
 - iv. Swivel Hoist Rings
 - v. Inspection
 - vi. Hooks
 - vii. Lift Type Weld-On Lugs
- 5) Lifting Devices**
 - a) Lifting Beams & Spreader Bars
 - b) Plate Clamps
 - c) Lifting Magnets



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- d) Beam Clamps
- e) Pipe Lifters
- f) Drum Clamps
- g) Pallet Forks
- h) Inspection

6) Angles & Stresses

- a) Single-Vertical Sling Stress
- b) Double-Vertical Sling Stress
- c) Double-Vertical Sling Stress Reduced
- d) Load Angle Factors
- e) Slings of Equal Length
- f) Load Angle Factors
- g) Slings of Unequal Length

7) Sling Hitches

- a) Capacity Tags
- b) Vertical Hitches
 - i. Single Vertical
- c) Bridle Hitches
 - i. Two-Leg Bridle
 - ii. Three-Leg Bridle
 - iii. Four-Leg Bridle
- d) Choker Hitch
 - i. Alternative to Cinching
 - ii. Single-Wrap Choker
 - iii. Double-Wrap Choker
 - iv. Double-Choker Hitch
- e) Basket Hitches
 - i. Single Basket Hitch
 - ii. Double Basket Hitch
 - iii. Basket Hitch Variations
 - iv. Basket Hitch Reductions

8) Crane Operations

- a) Weight
- b) Securing Loads
- c) Safe Lifting
- d) Center of Gravity
- e) Pick Points & the COG
- f) Side Loading



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- g) Critical Lifts
- h) Critical Lift Plans
- i) PPE

9) Communication

- a) Communication Devices
- b) Voice Signals
- c) Hand Signals
- d) General Hand Signals

10) Conclusion