**RIGGING LEVELS**

**Rigger Level - I**

**APPLICABLE STANDARDS:**

**OSHA 1926.251- Rigging Equipment for Material Handling**

**COMAR 09.12.26 Crane Safety**

**EM 385-1-1, Section 15 Rigging**

**Rigger I- Trained in the safe application, use and limitations of the rigging equipment as applicable to the work being performed.**

 **Has basic knowledge of: Voice & radio communication.**

 **Specific knowledge of crane operations**

 **Personal Fall Protection measures**

 **Emergency procedures**

 **Knows standard hand signals as defined in ASME B30.3/B30.5/B30.6**

 **Knows rigging & hardware including:**

 **Hooks & similar attaching devices**

 **Shackles, clips & clamps**

 **Taglines**

 **Synthetic/wire rope slings and common load configurations**

 **Knows the requirement for hazards and restrictions associated with working adjacent to overhead electric lines and**

 **Equipment.**

* **Perform daily inspections of my equipment.**
* **Recognize the all hazardous conditions and apply applicable requirements.**
* **Establish a Rigging Plan**

**Rigger Level - II**

**APPLICABLE STANDARDS:**

**OSHA 1926.251- Rigging Equipment for Material Handling**

**COMAR 09.12.26 Crane Safety**

**EM 385-1-1, Section 15 Rigging**

**Rigger II- Trained in the safe application, use and limitations of the rigging equipment as applicable to the work being performed.**

 **Has been trained in the use of:**

 **Come-along/chain hoist operations Lifting Points**

 **Rigging hitches & knots Dollies & Trollies**

 **Anchor points Manual & power tuggers and winches**

 **Synthetic ropes & slings for rigging Bars & levers**

 **Wire rope Fiber ropes for rigging jacks, jacking systems and rams**

 **Chains Links & rings**

 **Reeving Plate clamps**

 **Spreader Bars & Equalizing beams Softeners**

 **Cable dogs/grips**

* **Perform daily inspections of my equipment.**
* **Recognize the all hazardous conditions and apply applicable requirements.**
* **Establish a Rigging Plan**

**Master Rigger**

**APPLICABLE STANDARDS:**

**OSHA 1926.251- Rigging Equipment for Material Handling**

**COMAR 09.12.26 Crane Safety**

**EM 385-1-1, Section 15 Rigging**

**Master/Lead Rigger- In conjunction with Level I & II Rigger, The Master/Lead Rigger must be Trained in the safe application, use and limitations of the rigging equipment including:**

 **Blind Hoist Traveling with loads**

 **Work in close quarters Personnel lifting procedures**

 **Load dynamics Load weight estimation or determination**

 **Load indicator devices Capacity and load charts**

 **Mechanical advantages Center of gravity**

 **Effects of angles or indirect pulling Equipment capacity computations**

 **Drum/diameter (D/d) ratios Vectors and angles**

 **Boom angles and road radius**

 **Specific criteria from the manufacturer or equipment representative in the safe and appropriate methods of**

 **erecting, dismantling, jumping and reconfiguring of cranes.**

 **Special criteria for lifting a single load with multiple cranes**