**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**