

# Rigging Safety Class

## Agenda

### Hardware Safety

**Shackles...** Guidelines/explanation of different types/styles and appropriate usages

Discussion & information provided about safe normal manufacturing practices

Hanging loads at angles – reductions to working load

Inspection criteria – when and how to inspect load charts

**Wire Rope Clips...** Explanation & examples of correct methods of using wire rope clips when creating a wire rope sling

Recommendations for tightening clips (and retightening)

Discussion about when to consider using wire rope clips or fist grips

Inspection criteria – examples of different types of wire rope clips (malleable versus drop forged galvanized)

**Eyebolts...** Discussion & explanation of styles & types of eyebolts in the industry

Working load limits on straight pulls versus angular loads

Working load limit charts

Torque recommendations by manufacturers

Inspection criteria

### Synthetic Rope

Explanation of different types of synthetic products and the normal usage of nylon, polyethylene, polyester, cotton, and multifilament products

Breaking strengths – What do they mean?

Explanation of mill processes and put-ups of spools

Discussion and examples of how to splice different types of synthetic rope

### Wire Rope

Safe working loads per manufacturer's standards

Discussion and recommendations on figuring working load limits for different applications

Construction and specifications of wire rope – explanations of varieties and types of galvanized and stainless steel aircraft cable

Coating, dying, and resultant safe working loads of wire rope

Inspection of wire rope – when to inspect, how to inspect, what to inspect; when to put out of service

Explanation about MilSpec wire rope, domestically manufactured wire, and import wire

Explanation and examples of Certifications – what to require from the manufacturer/distributor

### Slings – Wire Rope

How to establish standards for your safe working loads and choosing the correct wire rope and construction for different applications

Swaging (crimping) criteria and recommended techniques from National Telephone Company

Samples, examples and hands-on manual crimping

How to use Go-No-Go gauges

How to “field-make” slings

Tagging and identification, what to require and why

### Inspection Needs in Rigging

An open forum discussion about specific inspection requirements currently in use for end-users and recommendations for future inspection record-keeping and behavior

### Open Book Test

**Eight Hour Class - \$300. Per Person, 15 Person Maximum to Class, Call 702-798-5559 or Fax Request to 702-798-6691 For Current Class Schedules**

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