

Calculations (60 points)

- Calculate stress and strain
- Draw free body diagrams
- Calculate reactions
- Find lengths and tensions for bridles
- Determine loads for battens and lift lines
- Find UBS, DF, WLL
- Convert DF
- Calculate actual and theoretical mechanical advantage
- Calculate resultant loads

Terminology (30 points)

- Identify the parts of common rigging systems (draw pictures with labels, label diagrams, identify physical samples)

Best Practices (60 Points)

- Choose appropriate design factors
- Choose appropriate ropes, cables and terminations
- Tie knots
- Know the 4 K's
- Know safe working procedures (study this in the Stage Rigging Handbook)