

Rigging Study Guide:

-Must have adobe acrobat reader- free download available

<http://www.adobe.com/products/acrobat/readstep2.html>

Or for an older version go here:

http://ardownload.adobe.com/pub/adobe/reader/win/6.x/6.0/ece/AdbeRdr602_ece.exe

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Reference materials from: JR Clancy, Inc.

Texas Scenic Co.

Job Training Systems, Inc.

Brendan Berg's Rigging Class

For basic rigging knowledge there are a lot of reference materials on-line. A good place to start is the JR Clancy web site.

http://jrclancy.com/technical_needs.htm

This is a great site that covers some topics such as, "Why we need rigging?", "The Counterweight System", and most importantly, "Rigging Safety".

Once on this page hit, "Rigging Systems Design Guide" to open up the adobe acrobat file, or just click

<http://jrclancy.com/Downloads/guide.pdf>

To better understand rigging terminology, a good link, also on the JR Clancy web site is:

http://jrclancy.com/technical_terms.htm

(You will also need adobe acrobat to read this link)

This link explains the basic terminology used in rigging, including such things as, "Trim" "Wire Rope", "Shackle", etc.

Another good web site for basic rigging explanations is the "Job Training Systems Basic Rigging Classes". Although you would have to pay for the full course, the web site offers a free sample of the information here: (Also an adobe acrobat type file)

<http://www.jobtraining.com/sample%20pages/160smpl.pdf>

The Texas Scenic Co.'s website has some great information on the counterweight system. Explaining the duties of the fly man, how a counterweight system works, and much more. (Also an Adobe Acrobat type file)

<http://www.texasscenic.com/rigmanual.pdf>

Some other information and terms not necessarily included in these web sites, but still important:

TERMS:

Basket- rigging apparatus consisting of wire rope and two shackles

Block and Fall -rope and pulley

Bridal- rigging apparatus made from wire rope, shackles and deck chain

Bull Line - large diameter rope used to pull up scenery or sandbags

Cat Walk- a walk usually suspended or cantilevered in the air

Chain Hoist-a motorized winch also called a motor

Dead Hang - single line hung

Deck Chain- used in a bridal configuration to better position a point

Dynamics- deals with motion and the effect of forces acting on rigid bodies in motion

High Bay - an area off the catwalk with lighting equipment

Kicking Block-moving loft blocks overhead by loosening the bolts and moving the blocks

Load to Force- the load is what your hanging, and the force is a strength or energy trying to cause motion or change

Power Distributions- power and control cables woven together for a compact package

Spanset- polyester core soft connection

Turnbuckle - two eye bolts threaded into a sleeve

MORE IMPORTANT INFO:

Common sizes of chain motors- $\frac{1}{2}$ ton, 1 ton, 2 ton

How many shackles in a basket? - 2

How many pounds in a ton? - 2000

2 main sizes of wire rope- $\frac{3}{8}$ and $\frac{1}{2}$

Instrument that measures the weight of a load- dynamometer

What is stronger a bridal or a choke? - A bridal

Most common type of knot in rigging- bowline

What do you look for when a chain motor is rising?- twisted chains

When you exceed a work limit of a chain hoist- it stops going up