

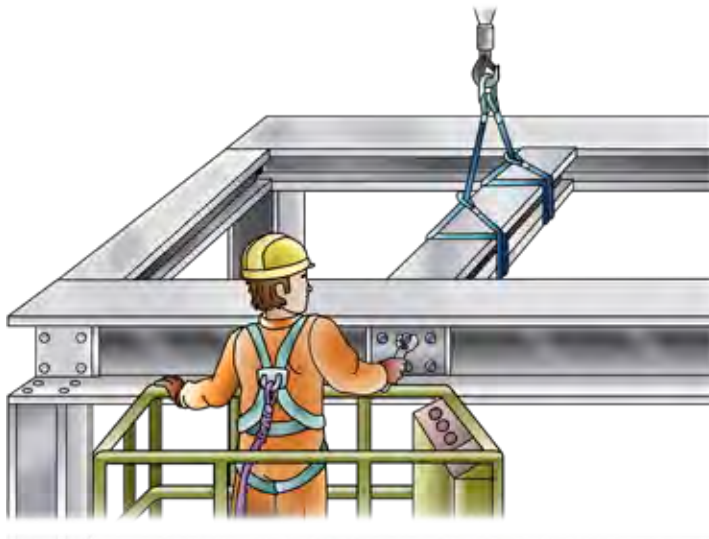
# RIGGING – BASIC

## SAFETY AND LICENCE GUIDE



Training support material for:

CPCCLRG3001  
Licence to perform  
basic rigging



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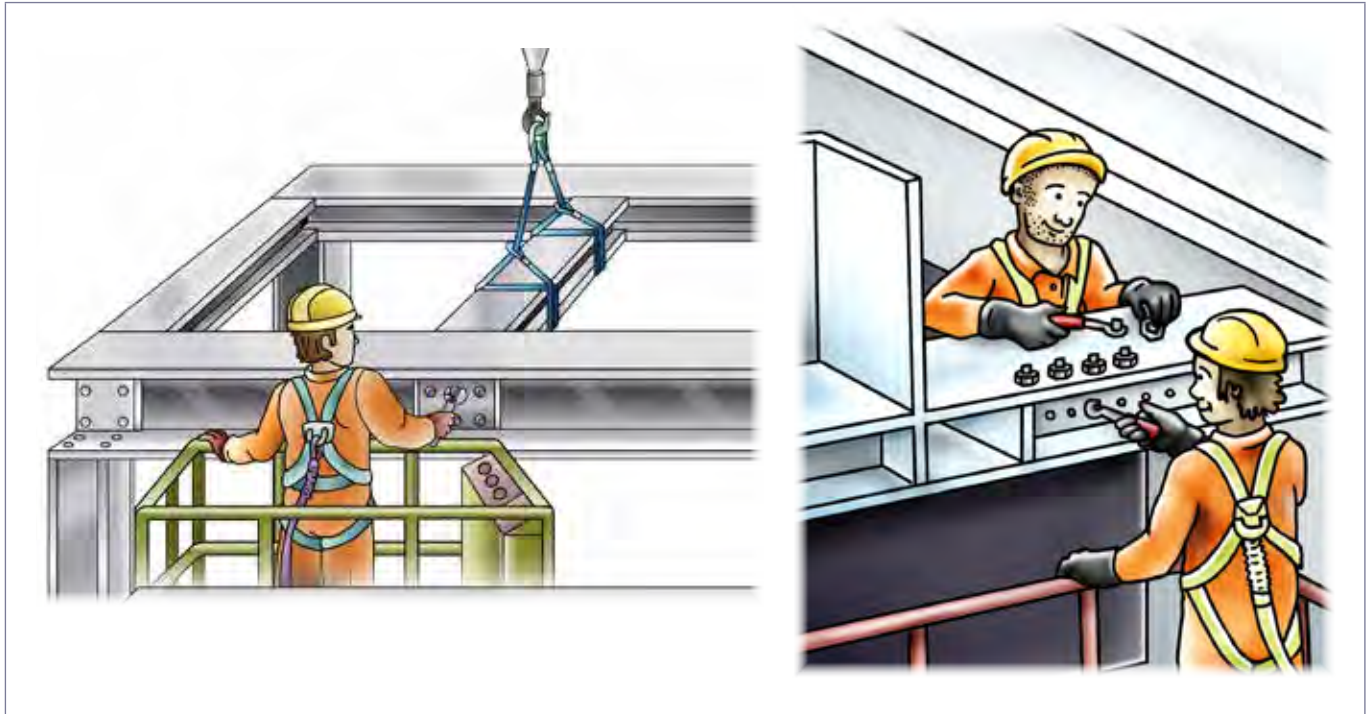
# INTRODUCTION TO RIGGING — BASIC



## What is rigging?

Rigging work means the use of mechanical load shifting equipment (and associated gear) to:

- Move, place or secure a load using plant, equipment or members of a building or structures to ensure the stability of those members
- The setting up or dismantling of cranes or hoists.



# PLAN TASK

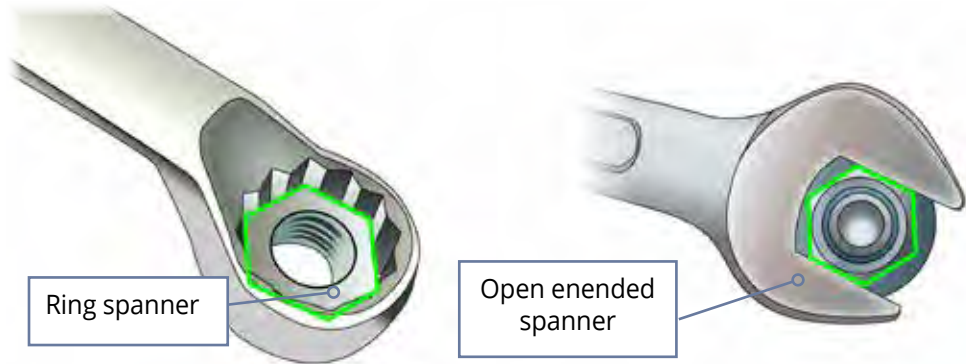
## Element 1



## QUESTION 1

What type of spanner must you use when working high off the ground?

A ring or open spanner that is the right size.



## QUESTION 2

What kind of spanner must never be used?

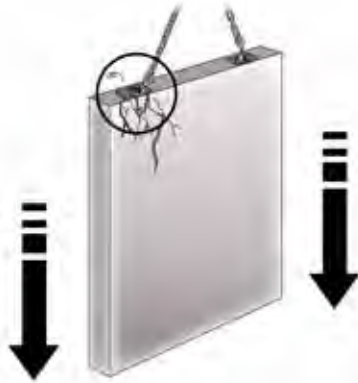
A shifter must never be used.



## If a lifting insert breaks

Concrete panels have lifting inserts. Here are some rules to follow if a lifting insert breaks or fails.

**Lower** the load



**Stop** working



**Tag** the panel out of service



**Do not** use the lifting insert.

Report the defect to the manufacturer of the panel. They might fix or replace the panel.





## Associated plant

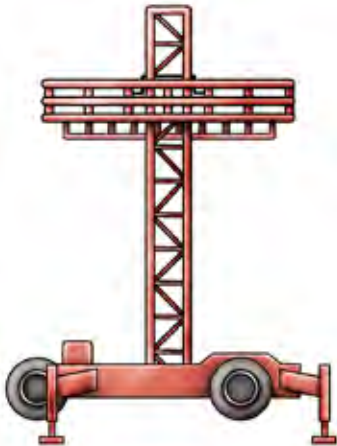
You will also need to think about any associated plant and the forces applied to them. This may include:

### Mast climbers

A mast climber is a platform raised for temporary access to heights.

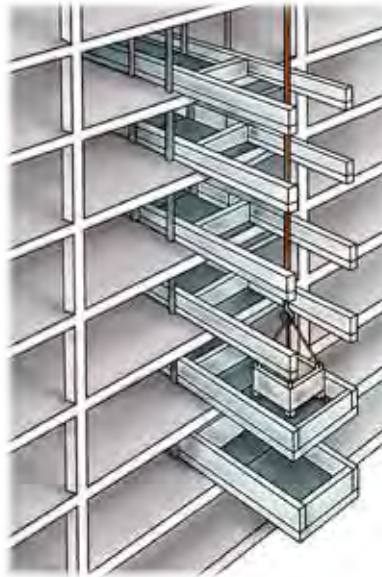
A dead load is a mast climber weight on the ground with no elevation or movement.

A dynamic load is a mast climber being elevated with workers, tools and materials on it.



### Cantilevered crane loading platform

A temporary loading bay cantilevered from the face of a building or structure to land or lift crane-handled loads.

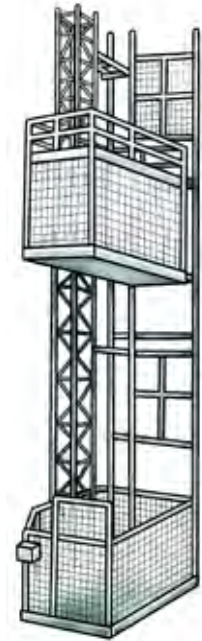


### Materials hoist

A materials hoist is a powered elevator you use to move materials up and down a building.

A wind load is the wind force on the materials hoist.

A dynamic load is a barrow hoist with a wheelbarrow of sand.



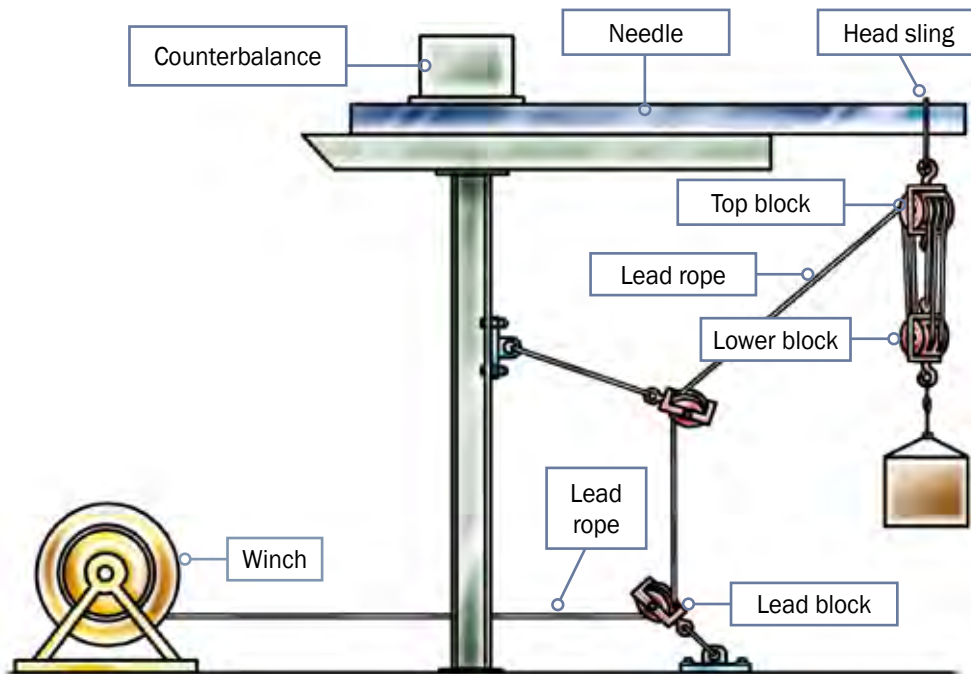


## QUESTION 4

...CONTINUED FROM PREVIOUS

Look at the picture.  
The winch and the head sling are shown already.

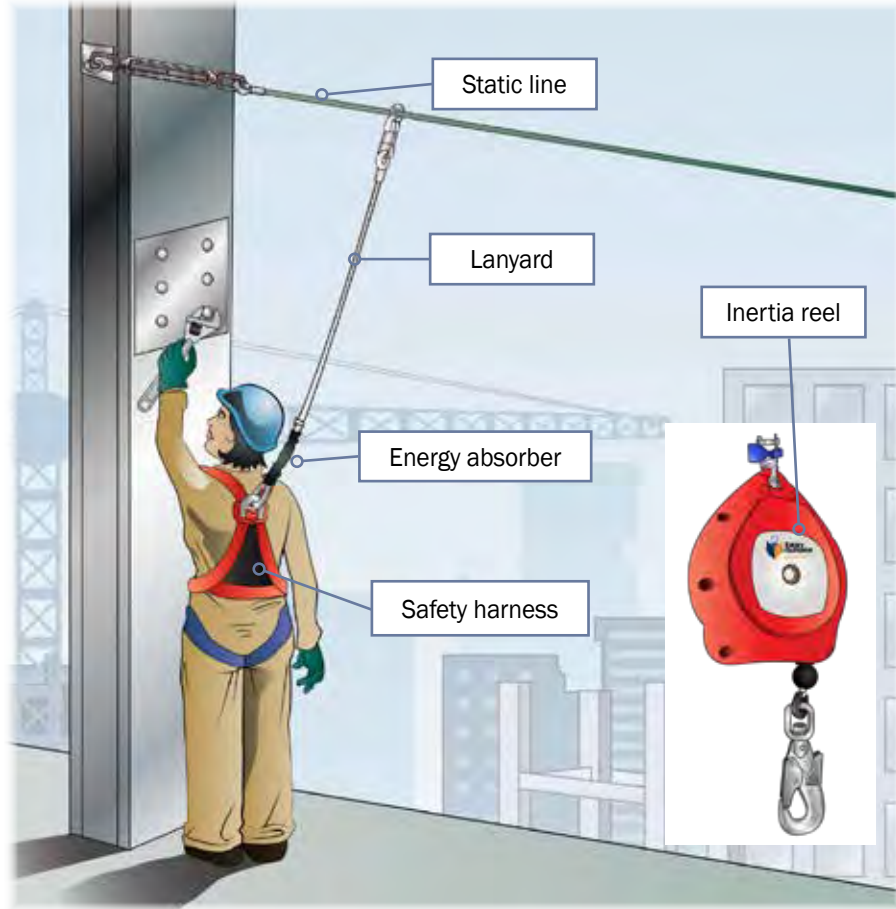
What are the other parts?



**QUESTION 9**

When you are doing rigging work you need safety gear. There is basic gear like boots and vests.

What other safety gear can a rigger use?



# SELECT AND INSPECT EQUIPMENT

## Element 2

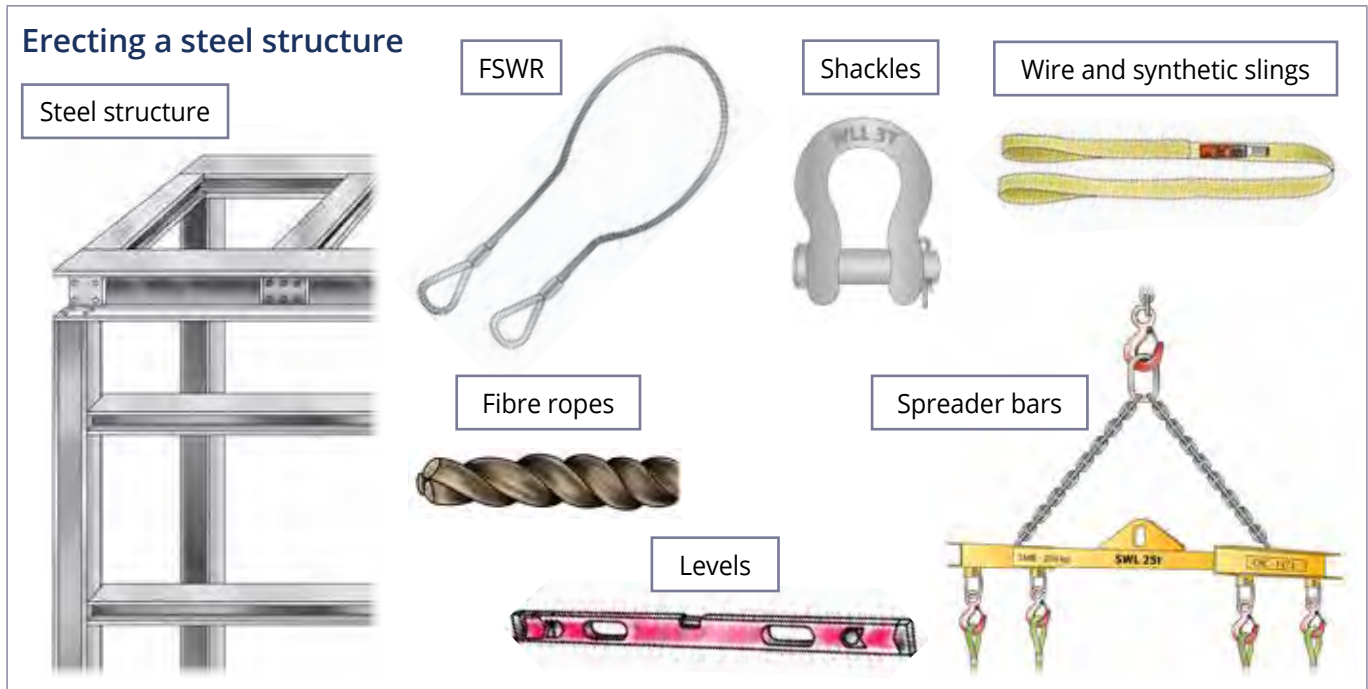


## Select and inspect rigging equipment

When you start a job you need to select and inspect the right rigging equipment.

### Choosing the right equipment for the task

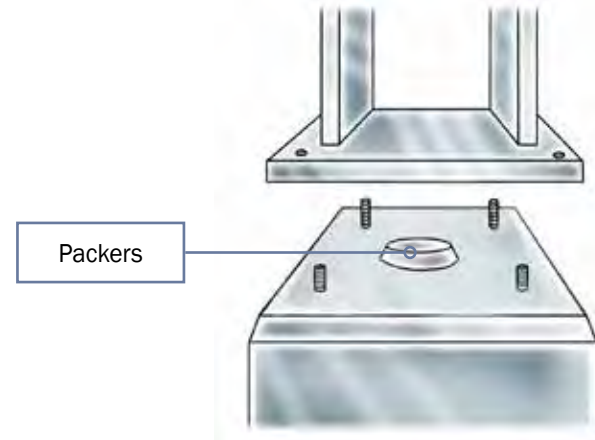
There are many different rigging tasks you will have to do. For each task, there are common pieces of equipment you will need. The following details show some examples of common basic rigging tasks and the equipment needed for them.



## QUESTION 44

Before you erect the steelwork, why do you need to use packers under the base of the column?

You do this so you have the right levels and heights. It helps the steelwork line up.



## QUESTION 45

You have to tension a horizontal safety line (static line).

Can you use a tensioning tool like a ratchet and pawl?

Only if:

The manufacturer of the tensioning tool says it can be used



An engineer says it's okay



You know how much tensioning is needed.



Work with associated equipment (continued)

## Checks before you use a Cantilevered crane loading platform (CCLP)

All the following checks should be done before you use a CCLP.

- Check all connectors and bolts are tight and in position
- Check adjustable props are set up to prevent the jack extending too much
- Check handrails are in the right position
- Make sure the platform floor and floor slab have no gaps
- Check props are plumb and the rear ties are in position
- Check if an engineer's permission is needed.

Minimum jack extension

Props plumb

Connectors and bolts

Handrails

Platform floor

Check with an engineer

