## SCAFFOLDING INTERMEDIATE SAFETY AND LICENCE GUIDE



**Training support material for:** 

CPCCLSF3001 Licence to erect, alter and dismantle scaffolding intermediate level

Produced by:





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## INTRODUCTION TO INTERMEDIATE SCAFFOLDING

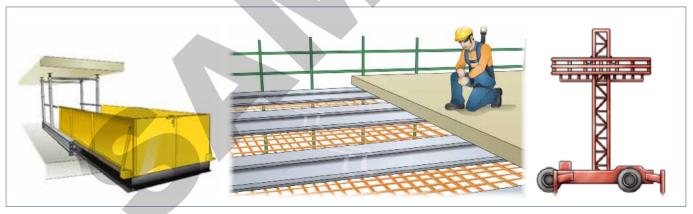


### INTRODUCTION TO INTERMEDIATE SCAFFOLDING

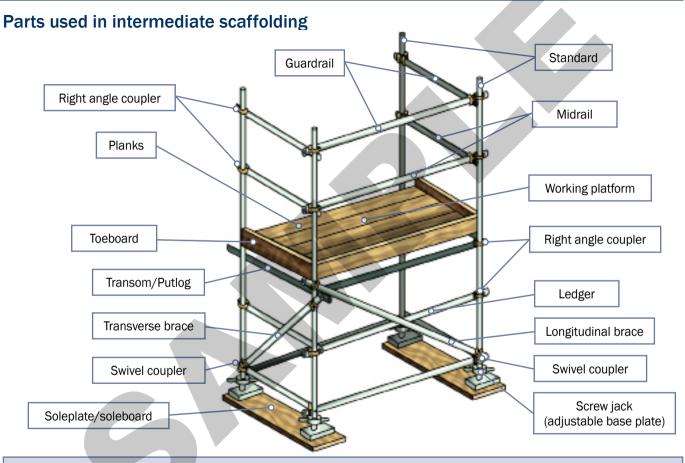
### What is intermediate scaffolding?

Intermediate scaffolding is scaffolding work associated with:

- Prefabricated scaffolds
- Tube-and-coupler scaffolds including tube-and-coupler covered ways and gantries
- · Cantilevered hoists with a working load limit not exceeding 500 kg (materials only)
- · Scaffolding associated with perimeter safety screens and shutters
- Ropes
- Gin wheels
- Safety nets and static lines
- Bracket scaffolds (tank and formwork)
- Cantilevered crane loading platforms
- Cantilevered and spurred scaffolds
- Barrow ramps and sloping platforms
- Mast climbers



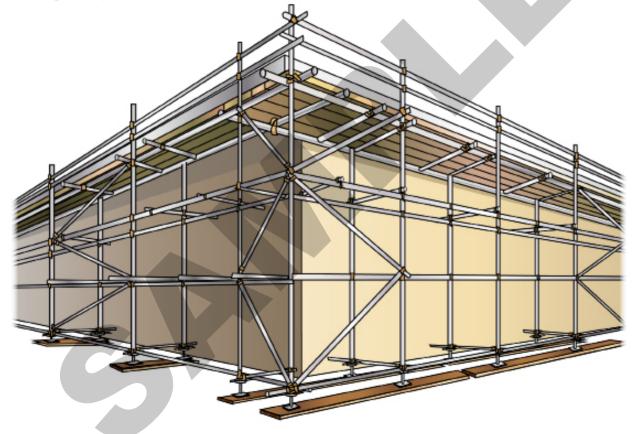
#### INTRODUCTION TO INTERMEDIATE SCAFFOLDING



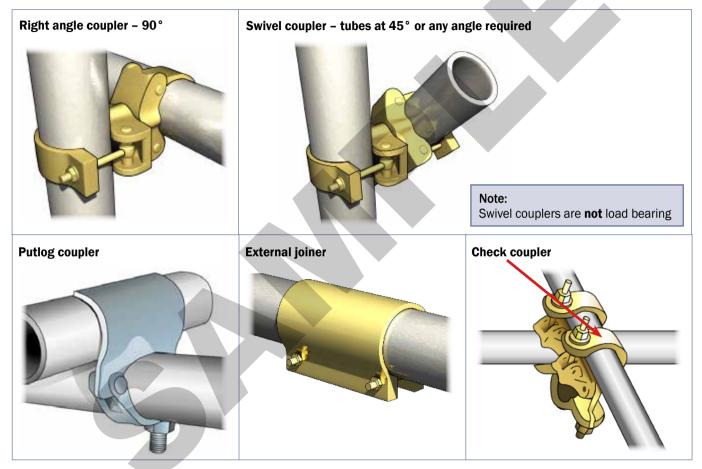
#### Note: Throughout this guide certain aspects have been left off scaffold images for clarity purposes.

### **Tube-and-coupler scaffolding**

A tube-and-coupler scaffold is constructed with standards, ledgers, braces and ties that are steel tubes joined together with purposed-designed couplers.



#### **Examples of couplers**



## **PLAN TASK**



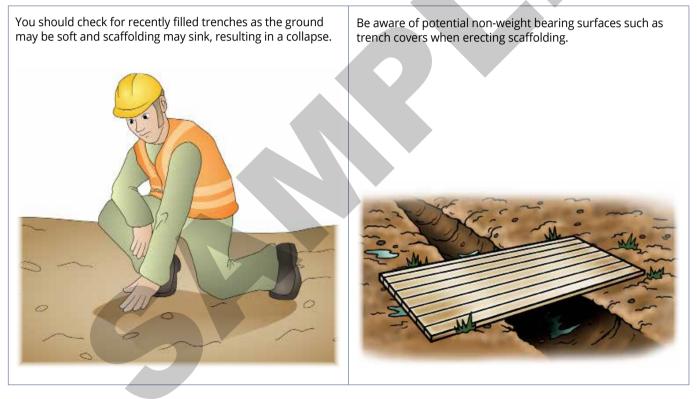
Element 1

#### PC 3.3

### **Ground conditions** Ground stability

It is important to check the ground conditions where you will erect/put up the scaffolding.

Make sure the ground is firm and level so the scaffolding will be stable.



#### PLAN TASK

#### PC 1.2

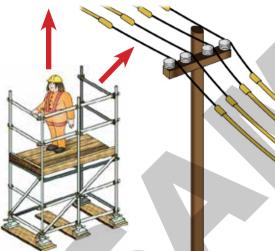
#### **Overhead services**

Before you start any scaffolding, **look above you** for such things as gas and water service pipes and electrical cables.

Make sure there is enough clearance for anyone using the scaffolding.

Always check the site for overhead powerlines so you **do not** hit them with any equipment.

### Look up and live!



Always check the powerline distances for your state or territory before you begin work, as they may be different.

### Too dark

You must be able to see clearly.

Ask your boss to have the area properly lit up. They may need to set up temporary lighting while you work.

#### PC 1.7

#### PLAN TASK

#### **QUESTION 17**

You need to plan for different forces and loads.

What do these terms mean?

- Static load
- Dynamic load
- Dead load
- Live load
- Wind load
- Environmental load.

**Static load** is the weight that's always on the scaffold.

Dynamic load is the dynamic force created when the scaffold moves.



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## SELECT AND INSPECT PLANT AND EQUIPMENT

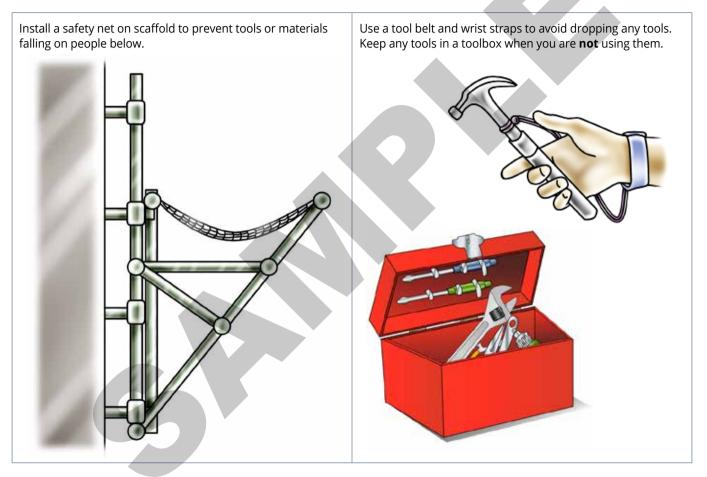
Element 2



#### PC 2.1

#### SELECT AND INSPECT EQUIPMENT

Hazard prevention and control measures (continued)



#### SELECT AND INSPECT EQUIPMENT

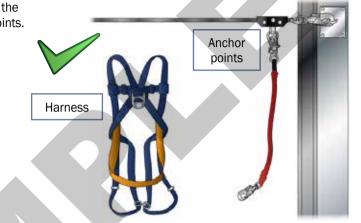
#### PC 2.2

#### **QUESTION 22**

You are erecting scaffolding and need to wear a fall arrest harness (safety harness).

What checks need to be made?

Check the condition of the harness and anchor points.



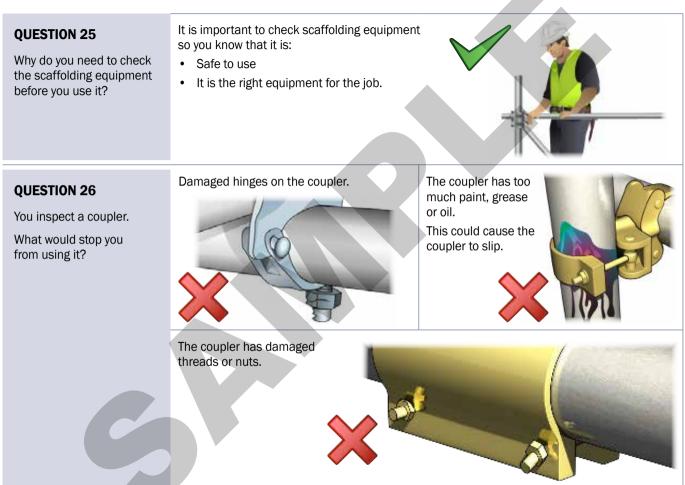
Check the harness is correctly fitted.

Check the harness is correctly attached to the anchor point, for example the static line.



#### PC 2.3

#### SELECT AND INSPECT EQUIPMENT



#### PC 2.3

#### SELECT AND INSPECT EQUIPMENT



## **SET UP TASK**



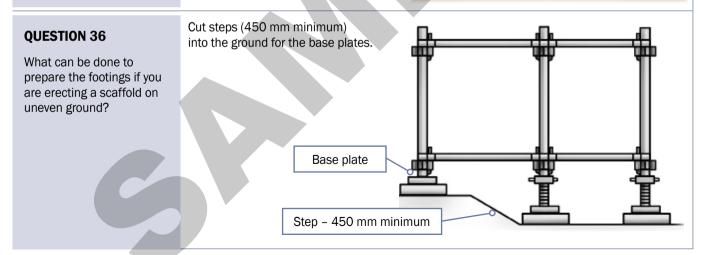


#### PC 3.3

#### SET UP TASK

#### **QUESTION 35**

Why do you need to know about the ground strength and stability before you start working? So you can be sure that the ground can support the weight of the scaffold and any load placed on it.



#### PC 3.4

#### **Prepare footings**

Good foundations are essential. Often scaffolding needs more than baseplates to safely support and distribute the load. For softer or more doubtful surfaces like pavements or tarmac, you must use soleplates (or soleboards).

Soleplates must be strong and rigid enough to support the weight of the structure (see AS/NZS 1576.1).

#### Baseplates and adjustable baseplates

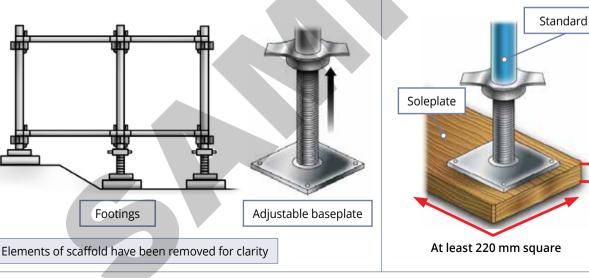
You may need to use adjustable baseplates if the ground is uneven.

On uneven ground you must cut steps for the baseplates with a minimum step size of 450 mm. To keep a scaffold stable, make sure the footings are properly prepared.

#### Soleplates/Soleboards

You must use soleplates when the ground is **not** strong enough to support the scaffold.

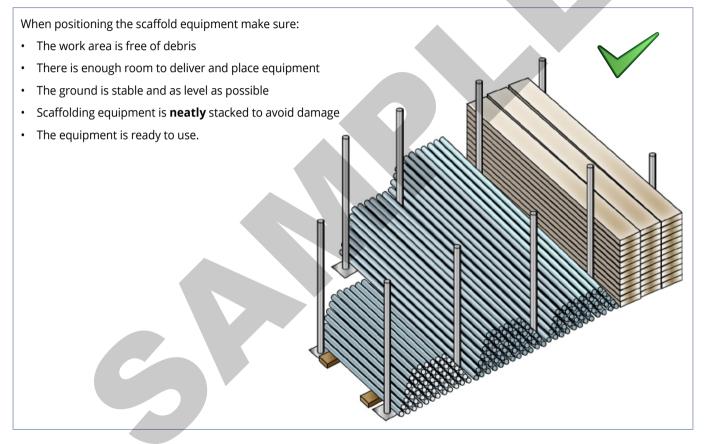
Beneath a single standard, a soleplate should be at least 220 mm square and a thickness of at least 35 mm.



At least 35 mm thickness

#### **Position scaffolding equipment**

Once you've checked you have the right scaffolding equipment, you can put it into place ready to erect.



## UNDERTAKE INTERMEDIATE SCAFFOLDING ACTIVITIES

Element 4



#### UNDERTAKE INTERMEDIATE SCAFFOLDING ACTIVITIES

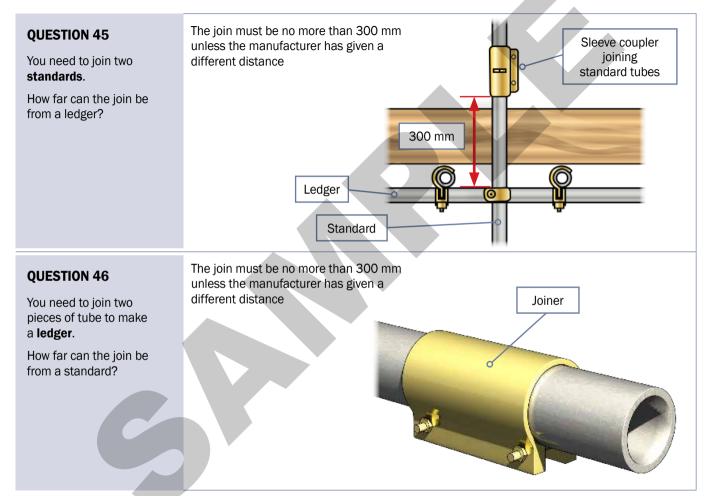
#### **QUESTION 44**

You are building an independent scaffold.

What is the maximum lift height?

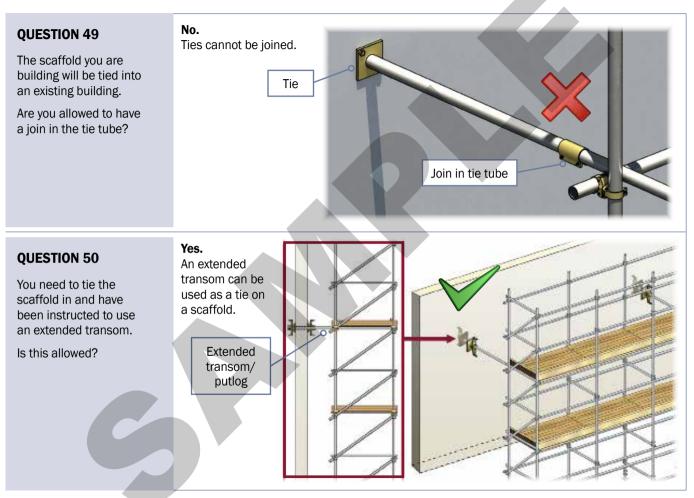


#### UNDERTAKE INTERMEDIATE SCAFFOLDING ACTIVITIES

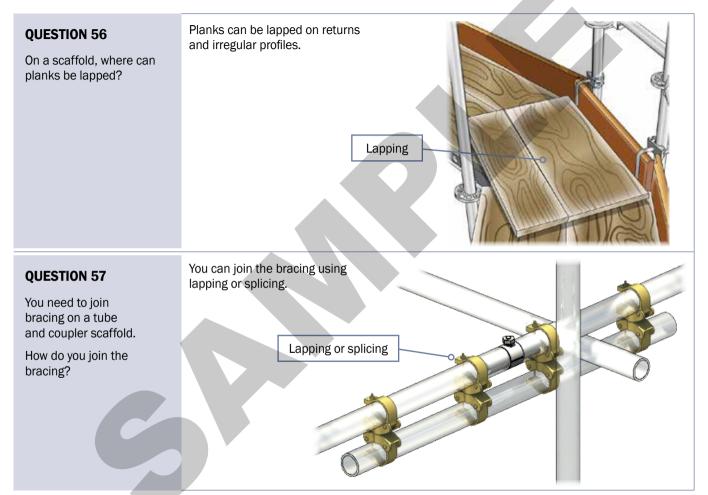


PC 4.1

#### UNDERTAKE INTERMEDIATE SCAFFOLDING ACTIVITIES



#### UNDERTAKE INTERMEDIATE SCAFFOLDING ACTIVITIES

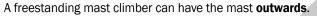


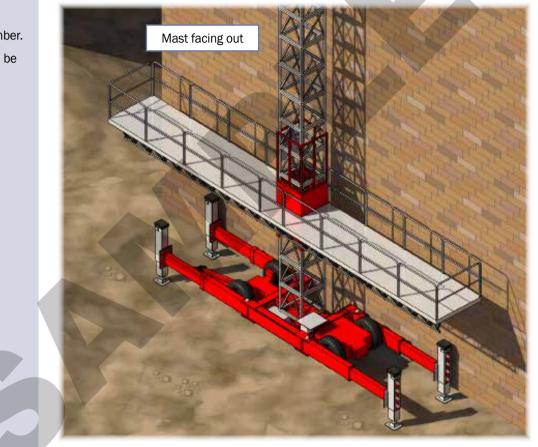
#### UNDERTAKE INTERMEDIATE SCAFFOLDING ACTIVITIES

#### **QUESTION 76**

You are setting up a freestanding mast climber.

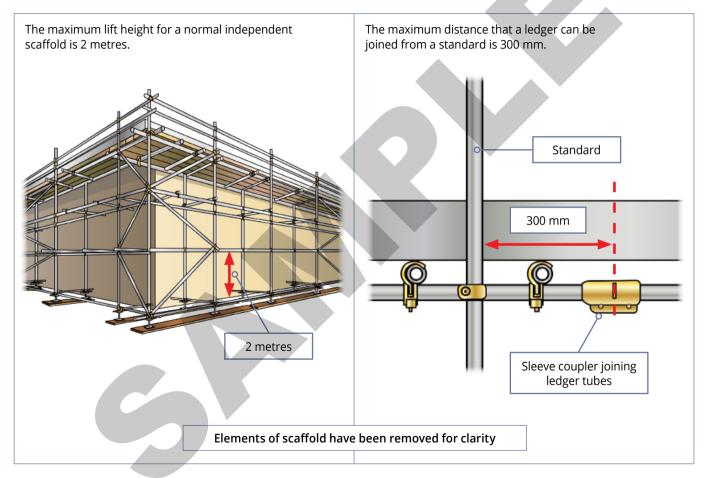
Does the mast have to be facing out or in?





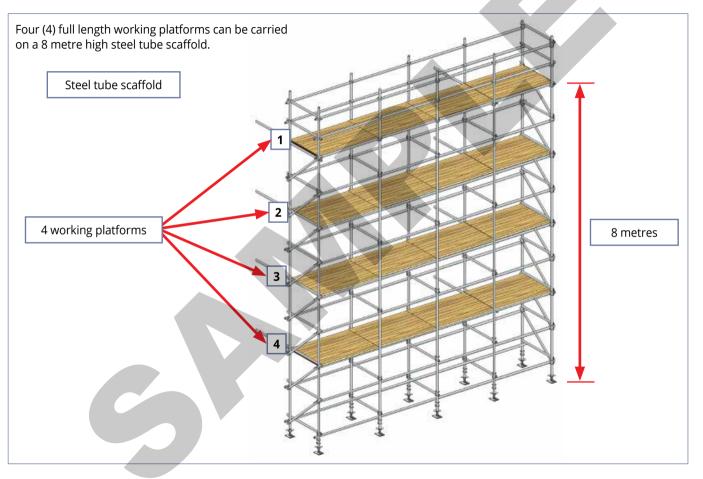
#### UNDERTAKE INTERMEDIATE SCAFFOLDING ACTIVITIES

Tube-and-coupler scaffold specifications (continued)



#### UNDERTAKE INTERMEDIATE SCAFFOLDING ACTIVITIES

Tube-and-coupler scaffold specifications (continued)



## **COMPLETE TASK**

Element 5



#### PC 5.1

#### COMPLETE TASK

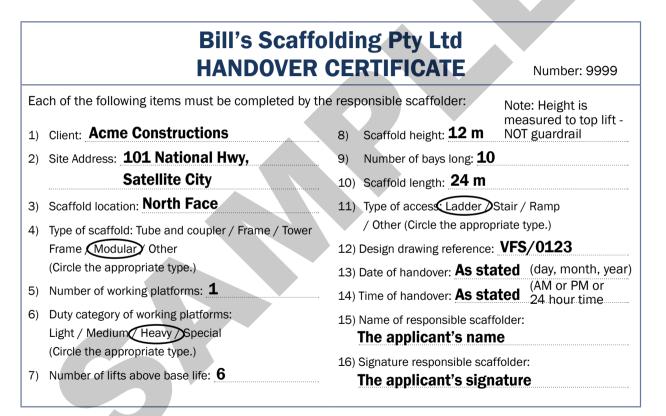
#### **QUESTION 84**

What must be done at the work site when you have finished your scaffolding work? Clean up any unused scaffolding parts, tools and rubbish so they dont become a hazard.



## **Handover Certificate**

Complete handover certificate. Send it to the relevant person



### **Scaffold tags**

After you have you have completed the handover certificate, complete and attach the scaffold tag/s.



**Green tags** are hung on scaffolds that have been inspected and are safe for use.

A green **"SAFE FOR USE"** tag(s), and should be attached to the scaffold at each access point after the initial inspection is complete.

Yellow CAUTION tag(s), will replace all green "Safe Scaffold" tag(s) whenever the scaffold has been modified to meet work requirements, and as a result could present a hazard to the user.

This tag indicates special requirements for safe use.