



CHAPTER 4

HEALTH AND SAFETY ON SITE



Safe Systems of Work Plan (SSWP)

Hazard identification and prevention

- Working at heights
- Excavations
- Falling materials
- Trips and slips
- Electrical injuries
- High noise levels etc



Once a hazard is identified

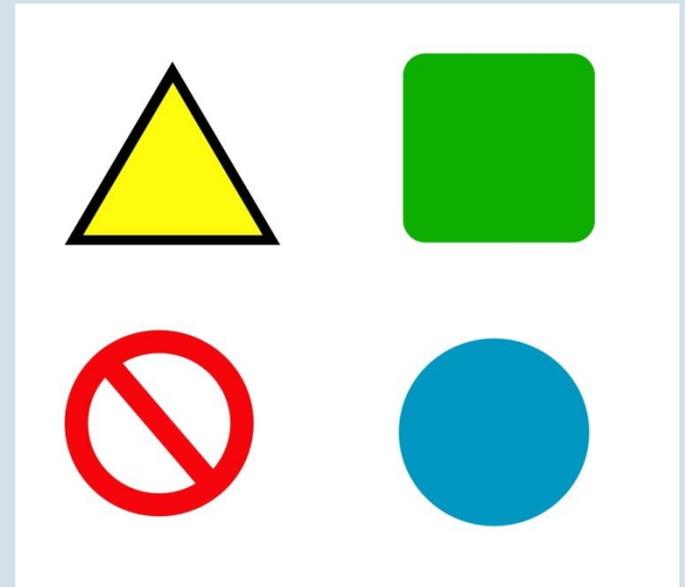
1. Eliminate the risk where possible.
2. Substitute the hazard with a lesser risk.
3. Isolate the hazard.
4. Use controls.
5. Wear Personal Protective Equipment (PPE).



Safety Signage

Colour denotes sign action:

- Red - Prohibition signs
- Yellow - Warning signs
- Blue - Mandatory signs
- Green - Safe condition signs



Personal Protection Equipment (PPE)

Reduce risk through use of personal protection equipment.

- Safety helmet
- High-visibility jacket
- Goggles
- Gloves
- Hard-toed safety boots
- Dust mask
- Ear muffs
- Face shield



Specific Risk Areas: Tools, Machinery and Equipment

- Trained to operate
- Battery operated & 110v
- Checking tools for damage
- Double insulation
- CE marking



Specific Risk Areas

Overhead cables

- Vehicle access gates
- Entry to and exit from site must be via these gates.
- Bunting must be at a height of 3-4.2m.



Specific Risk Areas

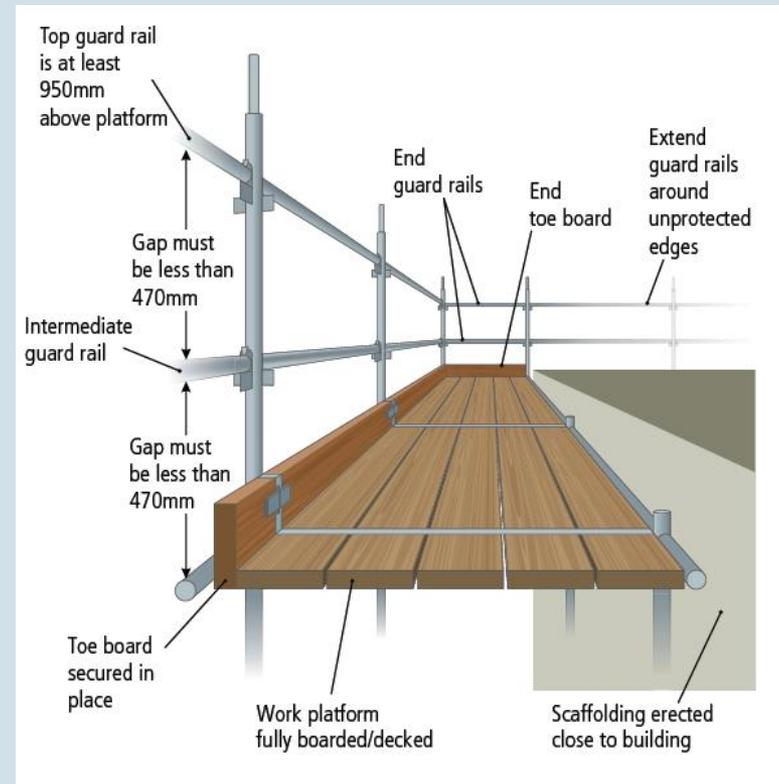
Excavations

- Scan surface before the excavation for:
 - Gas
 - Services
 - Piping
- Excavations deeper than 1.25m must have trench support for sides.
- Use battering back method of sloping sides.



Scaffolding

- Provides working platform for work at height over 1.5m.
- Must be a stable and solid structure.



Safety Certification

- Safe Pass
 - Increases awareness
 - Promotes safe culture
 - Highlights hazards in the workplace
- Construction Skills Certification Scheme (CSCS)



Relevant 2013 Exam Question

OL Q6

6. (a) For each of the following, draw the particular safety sign to indicate that the following personal protective equipment (*ppe*) must be worn on a construction site:
- eye protection
 - ear protection
 - safety gloves.
- (b) For each item of personal protective equipment listed at 6(a) above, outline **one** specific task on a building site where workers must wear the personal protective equipment.
- (c) List **one** other item of personal protective equipment that must be worn at all times on a construction site and discuss the reasons why the wearing of this item is compulsory.



Relevant 2013 Exam Question

HL Q2

2. (a) Discuss in detail the importance of **each** of the following in the development of a safety culture amongst workers on a construction site:
- training
 - vigilance
 - teamwork.

- (b) Identify **two** possible risks to personal safety associated with **each** of the following:

- using a ladder on a construction site
- fitting a window in the second storey of a dwelling house.

Using notes and freehand sketches as appropriate, outline **two** specific safety procedures that should be observed to eliminate **each** risk identified at **2(b)** above.

- (c) Recommend **three** best practice guidelines that should be observed when using electrical tools on a construction site.

