

# **Unit 202: Electrical principles and processes for building services engineering**

## **Outcome 5**

**Identify safety critical faults  
on electrical components  
and systems**

# Critical faults

## Consequences

- Electrocution
- Electric shock
- Fire
- Component failure
- Reduced life of component



# Critical faults

- Bad workmanship
- Drilling into wires
- Cracked junction boxes
- Missing earth bonding
- Polarity



# Critical faults

- Incorrect fuse size
- Incorrect flex size
- Bad installation
- Burnt flex
- Damaged cables



# Critical faults

In the case of any critical fault, always advise your supervisor – responsible person.

Qualified electricians will be called in to rectify any installation – competent person.

If a person has suffered an electric shock, the first aider may need to be called.



# Critical faults

When might you have to talk to:

Homeowner  
Tenant  
Landlord  
Site manager (agent)  
Other contractors  
Caretaker  
Managing agents  
Facilities manager

