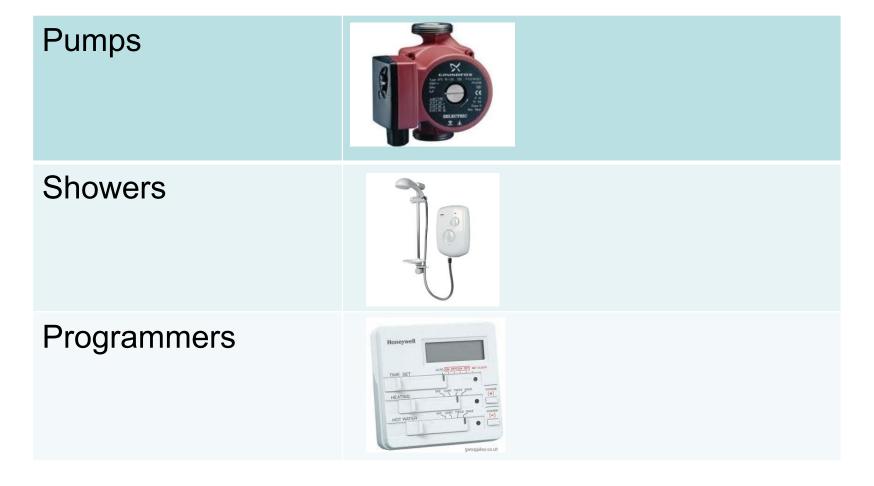


Unit 202: Electrical principles and processes for building services engineering

Outcome 3 Procedures for safely isolating supplies



This is important to undertake before any kind of work starts on electrical appliances.





Thermostats Immersion heaters Plugs/spurs





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Safe isolation



Approved voltage tester with proving unit



Locked off and labelled



GS38 The HSE testing equipment standard

(Test probes max 4mm, preferably 2mm)



- 1. Test the voltage indicator on a **known source** (proving unit).
- 2. Prove the appliance is **live**: place probes onto the live and neutral on the appliance mains connection voltage indicator lights up test between all combinations of terminal wires, L-N, L-CPC, N-CPC.
- 3. Identify the source for the supply ie MCB or fuse.
- Switch off MCB, lock and label, or remove fuse, lock and label.
- Go back to appliance and prove appliance is dead: place probes onto the live and neutral on the appliance mains connection – voltage indicator does not light up. Test between all combinations of terminal wires, L-N, L-CPC, N-CPC
- Re-test the voltage indicator on a known source for a second time (proving unit).

The correct locations to carry out safe isolation are:

- Consumer unit
- Fused spur
- Switch fused spur

Always lock and label to avoid the supply being switch back on by mistake (retain fuse).





