Prior Learning: Understanding the essential characteristics of a series circuit and experience of creating battery-powered, functional, electrical product. Initial experience of using computer control software and an interface box or a standalone box

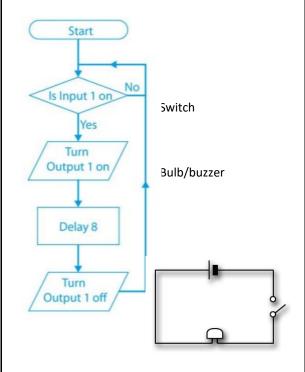
e.g. writing and modifying a program to make a light flash on and off. Facts Vocabulary 1. Flowchart— a diagram of the sequence of Series circuits. movements things involved in a complex sys-Series circuits are connected along a single path. tem or activity take. 2. Open switch – when a switch is positioned Therefore, the same current flows through all of the composuch that electricity cannot flow through it. nents but the voltage is dropped (lost). Closed switch – when a switch is positioned 3. Battery such that electricity can flow through it. ᆌᆘ 4. Modelling – to realise and manipulate ideas in Lamp a tangible form. Switches. Flowcharts. Latching switches are switches that maintain their state after A flowchart is a diagram of a sequence of events that include when a decision is made. being activated. A push-to-make, push-to-break switch would therefore be a latching switch – each time you actuate it, An example would be when a switch is whichever state the switch is left in will persist until pressed, a buzzer is activated. the switch is actuated again. Flowcharts are a simple set of instruction that

- A micro-switch is a switch that can operate as push-to-break switch or a push-to-make switch.
- A Reed switch is a switch operated by a magnet.
- A Tilt switch is a switch that works when tilted at an angle.



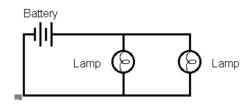
A Light dependent resistor (LDR) is a sensor that operates when light is shined on it.

something will follow using 'control language' which focuses on inputs and outputs.



Parallel circuits.

In a parallel circuit the current is divided into separate paths with each path receiving the same voltage.



Job opportunities

- Electrician
- Electrical engineer
- Construction
- Technician