203: Electrical installations technology  
**Worksheet 18: Earth loop impedance**

**Answer guide**

Try the following problems.

1. **List the typical components that make up the earth loop impedance path.**

**Zs**

**Ze**

**R1**

**R2**

**Main earthing terminal (MET)**

**Supplier’s earth return path.**

1. **Draw a labelled circuit diagram showing the earth loop impedance path for a TN‑C‑S system.**

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| 02 Earth loop impedance TN-C-S.png |