

# N2 Electrical Trade Theory

## Module 1: Alternating current circuit theory



### DEFINITIONS

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**Alternating current (AC)** – an electric current that reverses its direction many times a second at regular intervals

**Average value** – the average of all instantaneous values during one cycle of a sine wave

**Capacitive reactance** – the opposition that is offered to the flow of current in a capacitive circuit when an AC passes through it ( $X_C$ )

**Conductor** – a substance or material that can freely conduct the flow of charge carriers in the form of electrons from one atom to another in a specific material

**Cycle** – each repetition of a variable quantity, recurring at equal intervals

**Delta connection** – when three coils are connected in series to form a closed loop

**Effective (or RMS) value of an AC** – that value of AC that produces the same amount of heat energy, at the same rate, as a DC would, if passed through an identical resistance

**Form factor** – the ratio of the RMS value of a voltage or current to the average value of the voltage or current wave

**Generator** – a device that converts mechanical energy into electrical energy

**Impedance** – the total opposition impeding the passage of an AC in a circuit comprising combinations of resistors and reactances ( $Z$ )

**Inductive reactance** – the opposition that is offered to the flow of current in an inductive circuit when an AC flows through it ( $X_L$ )

**Instantaneous voltage or current** – the instantaneous value of voltage or current reached by a waveform at any instance in time

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