# N2 Electrical Trade Theory

# Module 1: Alternating current circuit theory

# REVISED CURRICULUM 2021

#### DEFINITIONS

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

# **Electrical Trade Theory N2 Questions And Answers**

Hansi

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Electrical Engineer ,1911 Basic Electricity Milton Kaufman, J. A. Wilson, 1973 The Popular Science Monthly Machinists' Monthly Journal ,1918 The Publishers' Trade List Annual ,1979 Electrical Trade Theory ,1919 The Electrical Journal, 1900 N2 Student's Book SA Chuturgoon, 2021 Popular Science Monthly and World's Advance **Electrical Trade Theory N2: New Syllabus** Gerrit Reinder Teunissen, 1997 .1916 Gunners' Instruction (mortar The Electrician ,1900 Collier's Hansi, 1916 Companies) ... 1916-1917 ,1916 The Electrician ,1941 Canadian Electrical Engineering Journal, 1983 Machinists' Monthly Journal. Official Organ of the International Association of Machinists ,1918 **N2 Electrical Trade Theory** S. A. Chuturgoon, 2021 Current Index to Journals in Education .1993 **Journal of Engineering Education**, 2006 **English Mechanic and World of Science** ,1913 Welding Engineer, 1953

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