

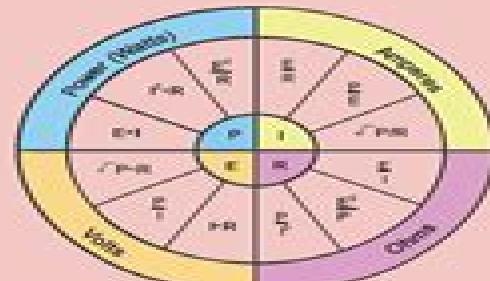
This TPC Training Reference Guide is not intended to be a substitute for the NFPA 70® National Electrical Code® or NFPA 101® Electrical Safety in the Workplace. These documents are intended to be used in conjunction with the National Fire Protection Association, Inc. Please refer to these standards for further guidance when working.

## Rules of Electricity

### Ohm's Law

One volt of electromotive force will force one amp of current flow through one ohm of resistance.

$E$  = Voltage  
 $I$  = Current  
 $R$  = Resistance  
 $P$  = Power (watts)  
 $\Omega$  = One ohm (formula for conductance)



### Example:

- What is the current in a 120-volt circuit with a load of 1800 watts?  
 $I = P/E = 1800/120 = 15$  amps
- What is the voltage of a circuit with a resistance of 10 ohms and a current draw of 20 amps?  
 $E = IR = 10 \times 20 = 200$  volts

### Nodal/Loop Law

Current: The sum of current in a junction equals the sum of current out of the junction. (Current goes in must come out)

Voltage: The algebraic sum of the voltage (potentials) differences in any loop must equal zero. (Voltage applied equals voltage drop)

## Electrical Generation



**Electrical Generators:** Devices that convert mechanical energy into electrical energy. Operation of power generation is based on the phenomenon of electromagnetic induction: whenever a conductor moves relative to a magnetic field, voltage is induced in the conductor.



### Single-Phase Power

**Single-Phase (120V) Power:** One complete cycle of a sine wave. North America operates at a frequency of 60 Hz (cycles per second).



### Three-Phase Power

**Three-Phase (208V) Power:** Consist of three separate sine waves equally spaced 120° apart. The advantage of 3-phase is more energy can be delivered to a load per unit of time. Most commercial and industrial facilities are supplied with 3-phase.

## Basic Electrical Circuit



Voltage: Sources generate flow through a resistance. The current returns to the source. There must be a complete path for electrical current to flow.

## Series & Parallel Circuits

### Series Circuits

A series circuit is a circuit that has only one path through which electrons may flow.

### Rules for a Series Circuit

The total current in a series circuit is equal to the current in any other part of the circuit.  
 Total Current:  $I_1 = I_2 = I_3 = I_4 = I_5$   
 The total voltage in a series circuit is equal to the sum of the voltages across all parts of the circuit.  
 Total Voltage:  $E_1 + E_2 + E_3 + E_4 + E_5 = E_{total}$   
 The total resistance of a series circuit is equal to the sum of the resistances of all the parts of the circuit.  
 Total Resistance:  $R_1 + R_2 + R_3 + R_4 + R_5 = R_{total}$

### Parallel Circuits

A parallel circuit is a circuit that has more than one path through which the electrons may flow.

### Rules for a Parallel Circuit

The total current in a parallel circuit is equal to the sum of the currents in all the branches of the circuit.  
 Total Current:  $I_1 + I_2 + I_3 + I_4 = I_{total}$   
 The total voltage across any branch in parallel is equal to the voltage across any other branch and the total voltage.  
 Total Voltage:  $E_1 = E_2 = E_3 = E_4 = E_{total}$   
 The total resistance of a parallel circuit is found by applying Ohm's Law to the total value of the circuit.  
 Total Resistance (R<sub>total</sub>) =  $\frac{\text{Total Voltage}}{\text{Total Amperage}}$

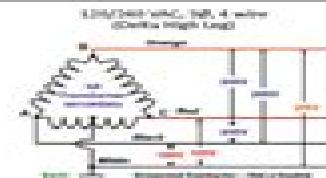
## Common Distribution Systems



120V/240V, 3-wire  
Delta Connection



120V/240V, 4-wire  
(Delta Wye Load)



208V/240V, 4-wire  
Y-Configuration



208V/240V, 3-wire  
Y-Configuration

# Basic Electricity Guide

**United States. Bureau of Naval  
Personnel**

## **Basic Electricity Guide:**

*Basic Electricity* Charles W. Ryan, 1986-10-28 Basic Electricity Second Edition A Self Teaching Guide Ever Wonder What makes a light bulb work What overloads a fuse Why your car needs a battery and an alternator We all use electricity in our daily lives yet most of us don't know what it is or how it works With Basic Electricity Second Edition you can teach yourself all about electricity for everyday understanding or as a basis for further study This easy to use guide takes you through the basics of electricity and familiarizes you with the workings of voltage current resistance power and other circuit values in direct current and alternating current electricity The Second Edition has been extensively updated to include the latest in electrical technology Through step by step problem solving you'll gain a true understanding of the basic rules laws concepts and equations of electric circuits Best of all you'll understand and appreciate the nature of electricity without ever having to determine its invisible identity Self tests at the end of each chapter have been fully revised and a brand new end of course exam is included so you can test your overall comprehension of basic electricity For further study the Second Edition's cross referenced list of standard texts on electricity has also been updated

**Basic Electricity** United States. Bureau of Naval Personnel, 1945 *Guide to Basic Electricity* Harry George Cisin, 1957 **A Learning Guide**, 1982 Basic Electricity

Electronics, Instructor's Guide Training & Retraining, Inc, 1965 **Teacher's Reference Guide Basic Electricity** Paul B. Zbar, 1966 Basic Electricity Study Course Refrigerating Engineers and Technicians Association, 2004 **Instructor's**

**Guide for Basic Electricity and Basic Electronics** Paul B. Zbar, 1976 Basic Electricity Adelaide Institute, 1999

**ATMT Basic Electricity Reference Guide** American Trainco, 2012-06-13 Reference guide containing charts and formulas for basic electrical rules and concepts Basic Electricity The Bureau of Naval Personnel, 2020-09-22 Published in 1969 Basic Electricity by The Bureau of Naval Personnel was initially issued as a textbook for a U S Navy training course Today the work is widely considered to be an excellent reference for both a general and a more detailed study of electrical fundamentals and theory The textbook is organized into 21 chapters and contains many appendices covering a wide range of topics such as safety batteries direct current circuits conductors wiring techniques magnetic circuits and electromagnetism alternating current systems and theory inductance capacitance reactance generators amplifiers synchros servomechanisms and much much more All of the important aspects of electricity are covered and the appendices are full of abbreviations common terms detailed illustrations and mathematical formulas and calculations including square roots and trigonometry functions Both amateur and professionals alike will find a wealth of important information in Basic Electricity an invaluable guide for any student studying electrical concepts or practical applications This textbook is also an important resource for homeowners and laypeople who wish to better understand the electrical systems in their homes This edition is printed on premium acid free paper Instructor's Guide for Basic Electricity and Electronics Graham, Roy H, Pachena Scientific & Industrial Electronics, 1987 Basic Electricity, 1970-01-01 Originally a training course text this book now offers the best

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