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tions will be on electrical theory, controls and other principals used in the safe installation of electrical work. All of the tests are timed and require a testing fee. We know your time and money are valuable, so our goal is to provide you with the study tools, references, and examples you will need to thoroughly prepare your-

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$X_C = 1 / (2\pi fC)$  where  $X_C$  is the capacitive reactance in ohms (  $\Omega$  ),  $f$  is the frequency of the AC applied to the capacitor in Hertz (Hz), and  $C$  is the capacitance in farads. As you can see from the equation, as the frequency of the AC increases, the capacitive reactance decreases.

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The negatively charged electron is held in place by the positive charge of the proton. This is because unlike poles (or opposites) attract and like poles repel. An atom is neutral if the number of electrons in it is equal to the number of protons. Each chemical element has a set number of protons and electrons.

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## Download Free Electrical Principles Free Study Guide

Let ' s start with three very basic concepts of electricity: namely, electric charge, electric current, and electric circuit. Electric charge refers to a fundamental property of matter that even physicists don ' t totally understand.

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### Electrical Principles Free Study Guide

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Voltage is the force that is applied to a conductor to free electrons, which causes electrical current to flow. It is measured in volts or “ V ” . Current will flow in a conductor as long as voltage, the electrical pressure, is applied to the conductor. Voltage is expressed in a number of ways: Quantity Symbol Decimal 1 millivolt 1 mV 1/1000 volt

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The Electrical Science Fundamentals Handbook was developed to assist nuclear facility operating contractors provide operators, maintenance personnel, and the technical staff with the necessary fundamentals training to ensure a basic understanding of electrical theory, terminology, and application.

### Basic Electrical & DC Theory

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