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### **INTRODUCTION TO UNIT 1 "ELECTRICIAN'S MATH AND BASIC**

1. Understand basic mathematics. 2. Identify electrical terms and symbols 3. Understand electrical theory. 4. Understand the electrical principles of Direct Current (DC). 5. Understand the electrical principles of Alternating Current (AC). 6. Understand the requirements and configurations of electrical circuits. 7.

### **Chapter 1 Basic Electrical Theory and Mathematics**

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MATH To review the mathematics related to electrical theory and the application of that theory to electrical equipment. APPLIED ELECTRICAL THEORY To improve the understanding and application of electrical theory related to the principles of operation of manufacturing equipment. 1. Draw and solve for circuit parameters such as resistance, voltage,

### **ELECTRICAL THEORY/TECHNOLOGY PLC CONCEPTS BASIC ELECTRONICS**

Conventional electric current moves from the positive surplus side of the battery (+) to the deficiency side of the battery (-) Conductors allow electrical current to easily flow because of their free electrons. Resistors

allow current to flow to some degree in proportion to their resistance in ohms.

### **Creative Inquiry Electronics Project Lab Manual**

Chapter 1 Introduction 1.1 Themes 1 From its beginnings in the late nineteenth century, electrical engineering has blossomed from focusing on electrical circuits for power, telegraphy and telephony to focusing on a much broader range of disciplines.

### **Fundamentals of Electrical Engineering I**

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Mathematics for Electricity & Electronics [Dr. Arthur Kramer] on Amazon.com. \*FREE\* shipping on qualifying offers. With its fresh reader-friendly design, MATHEMATICS FOR ELECTRICITY AND ELECTRONICS, 4E equips learners with a thorough understanding of essential algebra and trigonometry for electricity and electronics technology.

### **Mathematics for Electricity & Electronics: Dr. Arthur**

Math Review for Electrician Apprentices The following questions are for you to self-assess your current knowledge of math, to inform you whether you are prepared for the types of questions you will be required to complete as part of your apprenticeship technical training.

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