

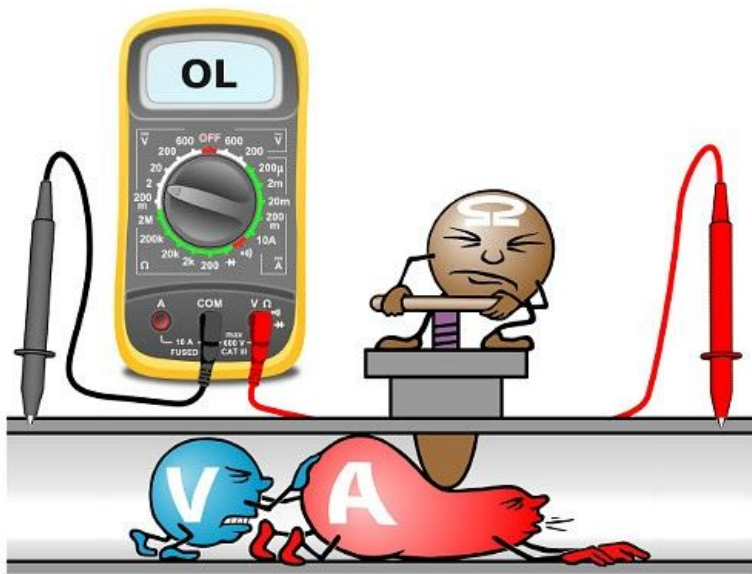
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Product Sheet - Prodiags Automotive Online Training Module

Electricity

In this study module we repeat the basic overview of electrical engineering and have added information on the use of a multimeter for you to learn. With the know-how from this module, you can apply electrical engineering skills in the first practical tasks.



- How electricity is generated and how its phenomena can be utilised
- Electrical engineering in a generator, actuator and detector
- The multimeter and basic measurements
- Utilisation of the multimeter and making use of a power clamp
- The practical application of multimeter measurements
- Studying and applying electrical engineering variables
- Practical application of power and voltage laws
- Practical application of measurement results and basic laws of electrical engineering

Language: English

SKU: 040.0140.010.000.EN

LEARNING OUTCOMES

After studying, you will have excellent skills to apply the basics of electrical engineering in practice and learn more about the subject at work and ongoing studies. After studying, you will be ready to perform measurements with a multimeter and power clamp.

Certificate

After completing your module of study and approved completion of the exercises, you will be allowed to take the final exam. After completing the final exam, you can print a Prodiags certificate from your attainments register as proof of your expertise.



INTRODUCTION

Why this module?

Electrical engineering is often part of the study of physics. However, often theoretical study does not give you the ability to take advantage of the expertise in practical work. All the knowledge and skills needed for practical application are in this learning module.

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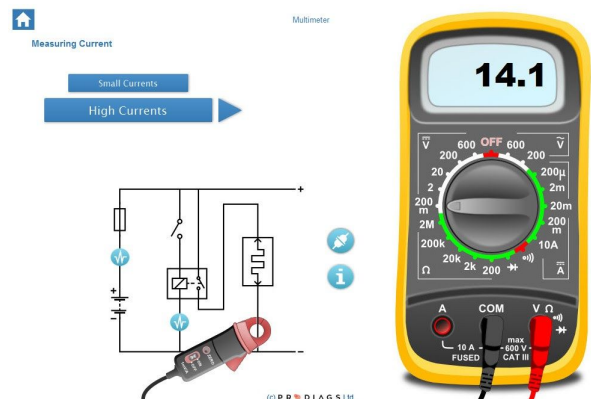
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- Study
 - Introduction to Electricity
 - Multimeter
 - Basic Laws of Electricity
- Assessment
 - Introduction to Electricity
 - Multimeter
 - Basic Laws of Electricity

What will you learn?

In the introduction to electrical engineering, you will learn at the required level, the basic phenomena of electricity, how electrical current and magnetism are connected to each other in the generation and use of electricity. You will understand how electric current is generated by a traditional generator and how other ways of doing this differ.

In order for the use of the electrical and quantitative principles of electrical engineering to be useful mathematically, the basic functions and use of the multimeter are added to the learning. You will be presented with the structure and measurements of the instrument. With practical examples, you can perform these measurements and get tangible results for voltage, resistance, and current.



In the third part you will study basic electrotechnical variables: the basics for voltage, resistance, current and power. Additionally you will learn what these figures reflect in electrical engineering, how they should be understood and how they become concrete in practice.

The learning introduces you to the mathematical application of electrotechnics through practical examples. The purpose of sample results and calculations is to guide you to make similar mathematical applications with your own measurement results. This will help you achieve the true know-how of electrical engineering; "The practical application of electrical engineering".

PREREQUISITES

No prior knowledge required.

System Requirements

Internet connection and PC or laptop with browser. Recommended screen resolution 1024 x 768 or higher.

Updates

We want to make sure that you always have the latest version of our product. Prodiags reserves the right to make real time updates and changes. This way you'll always have the best version, without extra fees.

Content Equivalence

This module's topics and objectives correspond in scope to a conventional 2 day training event. Once you have made your payment, you get immediate access to the content. You'll save time and money by not needing to travel.