



# What is electrical engineering heavy current all about?

## Description

The objective of the CAD-Elearning.com site is to allow you to have all the answers including the What is electrical engineering heavy current all about? question, and this, thanks to the Engineering tutorials offered for free. Learning this wonderful world of Engineering should be easy and accessible to all. And here is the answer to your What is electrical engineering heavy current all about? question, read on.

## Introduction

Heavy **Current** engineers are responsible for managing the effective supply and distribution of electricity. Heavy Current technicians act as a support structure to engineers and ensure that any faults with the equipment supplying the electricity are fixed so that the regular supply of electricity is not affected.

Considering this, what is the difference between light **current** and **heavy** current in **electrical** engineering? **Heavy** current is generally applied for mains electricity systems and lighting systems such as air-conditioning, sockets, power cabling, and high-voltage wiring. Light **current**: low voltage, low current, low power, but high frequency.

Subsequently, what do **electrical** engineers really do? Electrical engineers design, develop, test and manage the manufacturing of electrical equipment, from electric motors and navigation systems to power generation equipment and the electrical components of vehicles and personal devices.

Also, what are the three major types of electrical engineering?

1. Space systems engineering.
2. Electrical **engineering**.
3. Telecommunications **engineering**.

Frequent question, where can I work if I study electrical **engineering**? **Electrical** engineers can have a variety of responsibilities, including research and development, manufacturing, or even policymaking. They usually work for the government or in the communications, healthcare, manufacturing, or automotive industries. How many years does it take to study electrical engineering in South Africa? Minimum 4 years, full time study, for students gaining entry into the mainstream programme.

## **Why should I study electrical engineering?**

Electrical and electronic engineers work at the forefront of practical technology, improving the devices and systems we use every day. From solar-energy systems to mobile phones, we innovate to meet society's communication, tech and energy needs.

## **How can I become a successful electrical engineer?**

To become a successful electrical engineer, the student must have a strong grip over subjects like physics, sciences and mathematics along with logical problem solving abilities and good communication skills.

## **Is electrical engineering a good career?**

Electrical engineering is a promising career option for young professionals as there are literally thousands of job opportunities available in the field. You can literally work in any field that uses electricity, right from government organisations to private IT sector firms.

## **Which course should I take to become a electrical engineer?**

Most electrical engineers must have a bachelor's degree or even a master's degree in electrical engineering from a university accredited by the Accreditation Board for Engineering and Technology (ABET).

## **What skills do electrical engineers need?**

1. Critical thinking.
2. Technological knowledge.
3. Active learning.
4. Interpersonal skills.
5. Organizational skills.
6. Complex problem-solving skills.
7. Mathematics and physics skills.
8. Innovative thinking.

## **How many branches of electrical engineering are there?**

Electrical engineering is now divided into a wide range of different fields, including computer engineering, systems engineering, power engineering, telecommunications, radio-frequency engineering, signal processing, instrumentation, photovoltaic cells, electronics, and optics and photonics.

## **Are electrical engineers rich?**

Median salary: \$105,550 If you make it into the top 10% of earners, you can expect to make \$187,000 or more. Youâ€™ll earn the most if you go into the field of engineering services â€™ in that industry, the median salary for electrical engineers is more than \$152,000.

## **What type of people are electrical engineers?**

Electrical engineers score highly on openness, which means they are usually curious, imaginative, and value variety. They also tend to be high on the measure of social responsibility, indicating that they desire fair outcomes and have a general concern for others.

## **Which engineering is best for girls?**

1. Computer Science and IT.
2. Electronics and Communication Engineering.
3. Biotech or Bioengineering.
4. Electrical Engineering.
5. Chemical Engineering.

## **Is electrical engineering hard?**

Electrical engineering is hard. Electrical engineering is not easy because you have to study intensive math classes, advanced technical courses, multiple lab sessions, and a wide range of topics. Electrical engineering is known to be the second most difficult engineering degree after mechanical engineering.

## **What do after electrical engineering?**

A telecommunication engineer is a good career option after electrical engineering for someone with good knowledge of logging and database tables, experience designing and implementing LAN, WAN, Wireless LAN, and WWAN, and a fair technical understanding of network hardware Internet standards, and protocols.

## **Are electrical engineers happy?**

As it turns out, electrical engineers rate their career happiness 3.1 out of 5 stars which puts them in the bottom 40% of careers.

## How much does electrical engineer earn per month in rands?

The average salary for an Electrical Engineer in SA is R 452 600 gross per year (R 37 720 gross per month), which is 60% higher than the South Africa's national average salary. Salary Range: an Electrical Engineer can expect an average starting salary of R 143 500. The highest salaries can exceed R 1 268 600.

## How many points do I need to study electrical engineering?

To be considered for this qualification, applicants must have an Admission Point Score (APS) of at least 28.

## What are the disadvantages of electrical engineering?

Cons: " Very large scale job and it requires numerous hours spent on several different parts of the job. " It requires abilities and knowledge with numbers which is difficult for some. " It takes at least a bachelor's degree, plus years of apprenticing another electrical engineer/electrician.

## Wrapping Up:

I hope this article has explained everything you need to know about What is electrical engineering heavy current all about?. If you have any other questions about Engineering, please take the time to search our CAD-Elearning.com site, you will find several Engineering tutorials. Otherwise, don't hesitate to tell me in the comments below or through the contact page.

The following points are being clarified by the article:

- Is electrical engineering a good career?
- Which course should I take to become a electrical engineer?
- What skills do electrical engineers need?
- Are electrical engineers rich?
- What type of people are electrical engineers?
- Which engineering is best for girls?
- Is electrical engineering hard?
- Are electrical engineers happy?
- How much does electrical engineer earn per month in rands?
- How many points do I need to study electrical engineering?