



# Electricity and Energy Programme

ENGELSKA

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Skolverket

**The Electricity and Energy Programme is a vocational programme which leads to a vocational diploma.**

It is intended for students who wish to work with electrical installations, systems for automated production, energy, environment and water technologies, or computers and communication.

You can start working immediately after you finish your programme, or continue your studies in vocational higher education. You can also choose to study additional courses to be eligible for further studies in higher education.

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## FOUR DIFFERENT ORIENTATIONS

### Automation

- You learn about electrotechnology, computer technology, and technologies for operations and maintenance. The orientation enables you to work as e.g. an automation technician in property, industry or processes.

### Computers and ICT

- You learn to install, administer and repair systems for computers and communication. The orientation enables you to work as e.g. a technician in electronic production, home service or networks.

### Electrical technology

- You learn to install and repair electrical facilities, alarms and systems for TVs and computers. The orientation enables you to work as e.g. an installation electrician, industrial electrician or railway technician in electricity and signals.

### Energy technology

- You learn about operations and service functions in energy, environmental, water and process industries. The orientation enables you to work as e.g. an operator in power and heating technology or in water and environmental technology.

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## This is what you learn from the programme

You learn about production, installation and systems for distributing electricity, energy and water. You also learn about electrical and energy technology, automation, computers and communication technologies, and IT infrastructure. You study issues related to standards and information security.

Great emphasis is attached in the programme to working environment issues in order to avoid occupational injuries and build good health.

**How the programme is organised**

In the vocational programmes, the foundation subjects are: English, history, physical education and health, mathematics, natural sciences, religion, social studies, and Swedish or Swedish as a second language. In the vocational programmes, you study more vocational subjects – subjects specific to the programme – and fewer of the subjects you studied in compulsory school.

The programme specific subjects are: computers and ICT, electrotechnology, energy technology and mechatronics.

You get the opportunity to specialise and further broaden your knowledge in the programme. This is referred to as "programme specialisation". Check with the school to find out what specialisation courses it offers.

You also have an individual option where you can choose what you want to study. Ask the school what courses it provides.

**Working approaches**

The programme is based on different tasks that you solve individually or together with others in a systematic way using mathematical calculations. You develop your ability to cooperate with others, deal with customers and carry out work at companies and in private homes. You develop skills in planning, carrying out and assessing work processes. You learn to use the right materials and tools.

**Diploma project**

Towards the end of the Electricity and Energy Programme, you complete a diploma project in your chosen vocational area, where you can demonstrate that you have the knowledge needed to start working in the area.

**Workplace-based learning**

Parts of the education take place at one or several workplaces for a period of at least 15 weeks and are referred to as workplace-based learning (APL). This is an important component of the education. APL gives you the experience and contacts that can be useful when you're applying for a job.

**Apprenticeship education**

If the school provides upper secondary apprenticeship education in the programme, you can choose this. It means that you get the same knowledge but do at least half of your education at one or several workplaces.

**Some points to think about**

If you want to be eligible for higher education, it is important that you plan your studies in advance. In the individual option, and if the school provides this, you can choose from the programme specialisations, the courses you need to get basic eligibility for higher education. These are two courses in Swedish or Swedish as a second language, and a course in English. Talk to your study and vocational guidance counsellor if you want to continue your studies.

You always have the right to choose another course in physical education and health, and an aesthetic course in the individual option.