



# Industrial Technology Programme

ENGELSKA

Utbildningsinfo

Skolverket

**The Industrial Technology Programme is a vocational programme that leads to a vocational diploma.**

The programme is intended for students who wish to work with e.g. production planning, operations, maintenance and welding in industry. You learn about planning, design, manufacturing and operations. You learn to handle advanced technological systems.

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

### Operations and maintenance

- You learn about strategic and systematic maintenance. The orientation enables you to work as e.g. a mechanic in automation, service or maintenance.

### Process technology

- You learn about chemical and mechanical industrial processes, quality control, control and process technologies. The orientation enables you to work as e.g. an industrial sprayer, laboratory technician in the chemical industry, or as a process operator.

### Product and machine technology

- You learn to handle tools, industrial equipment and materials. The orientation enables you to work as e.g. a CNC operator with metal and wood, foundry worker, machine operator, joiner, graphic designer, printer, production technician, sawmill operator or workshop carpenter.

### Welding technology

- You learn welding techniques and sheet metalwork. The orientation enables you to work as e.g. a welder.

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## This is what you learn from the programme

You learn to use industrial technology and about production. You learn to handle equipment, materials and processes. You learn about different stages in production, organisation of work, product finance, use of raw materials and energy, quality assurance and how choice of materials, methods and technologies can impact society and the environment.

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: industrial technological processes, people in industry, production knowledge and production equipment.

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 tasks that you solve either on your own or together with others. You develop your ability to take initiatives and be creative, and learn how to cooperate with different companies and about the opportunities to run your own business. You develop skills in planning, carrying out and documenting, and developing the work.

**Diploma project**

Towards the end of the Industrial Technology Programme, you complete a diploma project in your chosen professional area. You can then show that you have the knowledge needed to start working in the area related to your education.

**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. 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 get basic eligibility for higher education, it is important that you plan your studies in advance. You need to study two more courses in Swedish or Swedish as a second language, and a course in English. You always have the right to choose an individual option, and you can also choose an expanded programme. 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.