

## **Vehicle and transport industry**

The subject of vehicle and transport industry deals with different professions in the vehicle and transport industry, and how they are organised and distinguished from each other. It also covers the specific knowledge requirements applicable in the various professions. The subject provides an introduction to work tasks within the vocational areas of the vehicle and transport industry. The subject covers concepts and methods specific to the profession.

### **Aim of the subject**

Teaching in the subject of vehicle and transport industry should aim at helping students develop their understanding of the role of the vehicle and transport industry in society, and what working in the various industries involves. Teaching should give students the opportunity to develop knowledge of current vocational areas in the industries and the conditions that apply to these areas. Teaching should give students the opportunity to develop knowledge that enables active career choices, and understanding of how the different occupations in the industries interact. Teaching should also help students develop knowledge of safety, environmental and quality requirements in the industries. Students should also be given opportunities to develop knowledge of traffic rules, and about risk and human factors in traffic.

Teaching should emphasise an investigative and problem-solving approach, and be based on simulations of real life situations.

### **Teaching in the subject of vehicle and transport industry should give students the opportunities to develop the following:**

- 1) Knowledge of the industries' activities, areas, structure and role in society.
- 2) Knowledge of the role of co-workers.
- 3) The ability to carry out checks and maintenance on vehicles.
- 4) The ability to cooperate and communicate with others, and use concepts and expressions relevant to the subject area.
- 5) Knowledge of laws and other regulations regulating the industries.
- 6) The ability to assess different types of traffic situations based on how human factors and risk affect behaviour in traffic.

### **Courses in the subject**

- Vehicle and transport industry – conditions and working areas, 200 credits.

## Vehicle and transport industry – conditions and working areas

The course, vehicle and transport industry – conditions and working areas, covers points 1–6 under the heading Aim of the subject.

### Core content

*Teaching in the course should cover the following core content:*

- Professions in the industries, different areas of activity, and conditions in the industry.
- History, development and future of the industries.
- The role of industry in society and its environmental responsibility e.g. alternative fuels, recycling requirements and environmentally friendly driving.
- Conditions for employment and entrepreneurship in the industry.
- Vehicle checking, and also simpler maintenance e.g. handling and charging batteries, filling liquids and changing tyres.
- Information systems and manuals for vehicles.
- Safety in connection with work e.g. fire and cardio pulmonary resuscitation.
- Professional ethics, customer treatment, communication and the relationship between man and machine.
- Laws and other regulations governing work in the industry.
- Traffic rules. Factors affecting human behaviour in traffic, and how different forms of behaviour affect traffic safety, including risk factors in traffic.

### Knowledge requirements

#### Grade E

Students describe **in basic terms** the development of the vehicle and transport industry, and common areas and professions, individually and how they interact in working life. In addition, students describe **in basic terms** the role of co-workers, and the conditions for employment and business in the industries.

Students carry out **in consultation** with the supervisor checks and maintenance on vehicles. In their work, students solve **in consultation** with the supervisor **simple** tasks in familiar situations, and also use appropriate working methods and tools. In addition, students take responsibility for machine assets, their own safety and that of others. Students cooperate to achieve planned results, and use concepts and expressions in their communication relevant to the subject area. In their

work, students give an account **in basic terms** of laws and other regulations governing their work. In addition, students work in accordance with requirements on safety and the environment.

Students give an account **in basic terms** of different **simple** traffic situations and give examples of different action alternatives. In addition, students give an account **in basic terms** of different types of risk behaviour in traffic. In their reports, students make **simple** assessments of traffic situations, and also of how human factors and risk affect behaviour in traffic.

In consultation with the supervisor, students assess **with some certainty** their own ability and the requirements of the situation.

## **Grade D**

Grade D means that the knowledge requirements for grade E and most of C are satisfied.

## **Grade C**

Students describe **in detail** the development of the vehicle and transport industry, and common areas and professions, individually and how they interact in working life. In addition, students describe **in detail** the role of co-workers, and also the conditions for employment and business in the industries.

Students carry out **after consultation** with the supervisor checks and maintenance on vehicles. In their work, students solve **after consultation** with the supervisor **complex** tasks in familiar situations, and also use appropriate working methods and tools. In addition, students take responsibility for machine assets, their own safety and that of others. Students cooperate **and contribute to maintaining their co-operation** in order to achieve planned results, and also use concepts and expressions in their communications relevant to the subject area. In their work, students give an account **in detail** of laws and other regulations governing their work. In addition, students work in accordance with requirements on safety and the environment.

Students give an account **in detail** of various traffic situations and give examples of different action alternatives. In addition, students give an account **in detail** of different types of risk behaviour in traffic. In their reports, students make **well grounded** assessments of traffic situations, and also of how human factors and risk affect behaviour in traffic.

In consultation with the supervisor, students assess **with some certainty** their own ability and the requirements of the situation.

## **Grade B**

Grade B means that the knowledge requirements for grade C and most of A are satisfied.

## **Grade A**

Students describe **in detail and in a balanced way** the development of the vehicle and transport industry, and common areas and professions, individually and how they interact in working life. In addition, students describe **in detail and in a balanced way** the role of co-workers and the conditions for employment and business in the industries.

Students carry out **after consultation** with the supervisor checks and maintenance on vehicles. In their work, students solve **after consultation** with the supervisor **complex** tasks in familiar **and new** situations, and also **choose and** use appropriate working methods and tools. In addition, students take responsibility for machine assets, their own safety and that of others. Students cooperate **and contribute to maintaining and developing co-operation** in order to achieve planned results, and also use concepts and expressions in their communication relevant to the subject area. In their work, students give an account **in detail** of laws and other regulations governing their work. In addition, students work in accordance with requirements on safety and the environment.

Students give an account **in detail and in a balanced way** of different **complex** traffic situations and give examples of different action alternatives. In addition, students give an account **in detail and in a balanced way** of different types of risk behaviour in traffic. In their reports, students make **well grounded and balanced** assessments of traffic situations, and also of how human factors and risk affect behaviour in traffic.

In consultation with the supervisor, students assess **with certainty** their own ability and the requirements of the situation.