



Course syllabus

Brandmannautbildning Introductory Course for Firemen

VBRA15, 4,5 credits, G1 (First Cycle)

Valid for: 2023/24

Faculty: Faculty of Engineering, LTH

Decided by: PLED BI/RH

Date of Decision: 2023-04-12

General Information

Main field: Technology.

Elective for: BI1, BR1

Language of instruction: The course will be given in Swedish

Aim

The aim of this training course is to provide the students with a foundation in the Rescue Service's methods, work routines, and scope of operations. The student will receive an understanding of how and for what reasons the organisation operates.

With these knowledge skills and preparations as a base, the student will be able to participate in the daily operations of a community-based Rescue Service.

Learning outcomes

Knowledge and understanding

For a passing grade the student must

- be able to describe the methods and techniques applied to fires within a building, traffic accidents, spills of hazardous substances, and life-saving operations on water and working at great heights.
- be able to handle the equipment required to address these situations.
- be able to describe and understand the risks that are inherent in the above situations and to outline the safety-related measures that are required to address these types of risk.
- be able to explain the role of the Rescue Service and that of other community agencies at the site of an accident.

Competences and skills

For a passing grade the student must

- be able to fulfil the role of Fireman, as an individual and in a group, in certain simple, uncomplicated rescue situations (working as smoke diver is excluded).

Contents

- Tactics, organisation and governing laws..
- Vehicles and pumps, hoses and armatures.
- Extinguishing media/effects. (Alternative extinguishing methods are included).
- Fundamental (fire theory, fire development) and smoke ventilation.
- Breathing apparatus.
- Life-saving on water.
- Traffic accidents, methods and techniques.
- Investigative techniques, cardiac and pulmonary rescue, risk for infection, ethics.
- Ladders and working at great heights.
- Emotional first-aid and back-up support for colleagues.
- Knowledge of chemicals, decision-making support, equipment for taking care of hazardous materials.

Examination details

Grading scale: UG - (U,G) - (Fail, Pass)

Assessment: Successful certification includes attendance at compulsory elements.

The examiner, in consultation with Disability Support Services, may deviate from the regular form of examination in order to provide a permanently disabled student with a form of examination equivalent to that of a student without a disability.

Admission

The number of participants is limited to: No

The course overlaps following course/s: VBR240

Reading list

- Handouts from Swedish Civil Contingencies Agency (MSB) Revinge.

Contact and other information

Course coordinator: Dan Madsen, dan.madsen@brand.lth.se

Further information: The course is only available for students enrolled at the Bsc programme in Fire Protection Engineering, or Master of Science in Engineering, Fire Safety Engineering at Lund University. The course is given at MSB in Revinge