



Course Content

Vocationally adapted course in technique and science	2
Technical English	2
Report writing and Presentation technique	1
PC basic and Computers as tools for development	1
Quality standards ISO 9000 and Environment ISO 14000	2
Group development	1
Working systematically with HMS	2
Dangerous goods / ADR	1
Production economy	2
Company support system, MPS	1
Emergency awareness	1
Deviation and Risk management	2
Project work	2
Practical studies	13
Optional courses	
Knowledge of explosives / Flammable goods	7
Automation and maintenance	7

The extent of the education is 40 CVE-points including on optional course.

A student who has completed his/her education achieves a vocational certificate.

The workplace based education has taken place at different companies in small towns like for example Karlskoga, Nora and Lindesberg.



KCEM is a national Competence Centre for Energetic Materials situated in Karlskoga. Energetic materials are products that can be decomposed without the aid of oxygen in the air, but also other high-energy products. Energetic materials are used in both civil and military industry.



Adult Learning Centre Masugnen is the way in and the meeting place in the Municipality of Lindesberg for all adults who want to develop their competence. This includes job applicants, employees as well as private people. Everybody meets a creative, flexible, environment, where learning at different levels are intermixed with work at the labour market.



EU-Excert aims to establish a stable firm fundament and framwork for vocational education of people in the European explosives sector. Training and education institutions as well as social partners will have a tool for competence and career planning. New training methods will be developed.



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Certified Vocational Training

with emphasis on process engineering within the explosives industry

40 CVE-points



A co-operation between Adult Learning Centre Masugnen, KCEM and representatives from the explosives industry.

CERTIFIED VOCATIONAL TRAINING

CVE is an education for students after upper secondary school. It offers a certified vocational training of high quality leading to a qualified employment.

The CVE-education with emphasis on process engineering within the explosives industry is based on a close co-operation between industry, Adult Learning Centre Masugnen and KCEM.

CVE is intended for those who come straight from upper secondary school, and for professionally active people who wish to deepen their knowledge within this area.

The extent of the education is 40 points, with two optional directions. Each point is the equivalent of 40 hours of studies. This means that the average time of study will be 40 weeks.

The eligibility requirement is a complete upper secondary school education or similar.

The number of students is 20 per year.

WHY CVE?

To meet the needs within an ever growing knowledge-intensive, internationalized and changing industry, with high demands on the co-workers' ability and competence.

This is a flexible system to supply a qualified vocational training in a quickly changing world around us.

An alternative for those who want to get a qualified vocational knowledge in different lines of business.

FROM THE STUDENT 'S POINT OF VIEW



Johan Petri, on vocational training at Eurenco Bofors AB, Karlskoga

- I think this is a great training that has completely changed my attitude about working with explosive and flammable materials. The planning of the course and the material is very good; to vary between theoretical studies and work practise is an excellent solution. When you get in touch with the company, it gives you a bigger understanding of the theoretical studies to practise them live. I don't regret applying for this course. It has taken me into entirely new fields and opened up a big possibility to get a job. I also feel that I have developed a circle of contacts during work practise which can prove beneficial in the future.



Åsa Klaw, on vocational training at Bofors Test Center AB, Karlskoga

- This training really means a lot to me. For many years I have worked with office work without feeling completely comfortable about it. The opportunity to try a job in practise and at the same time study "useful" courses is terrific. As a parent of small children, this method of distance courses suits me very well. It gives me a possibility to study at home. To get a vocational training in just a year is also a good thing. It is a wide-ranging training and you get a lot of knowledge and experience, useful even if you end up outside this sector. I look forward to the future with great expectations having this training behind me.

REPRESENTATIVES FROM THE INDUSTRY



Bengt Svensson, Bofors Test Center AB

- We have to find a way of replenishing the expertise in a time when training programmes in the industry close down and a high proportion of the most experienced and knowledgeable personnel are nearing retirement. This education can promote industrial growth thanks to the competence development. More knowledge means more possibilities. We have to work together to develop new forms, techniques and flexible models for lifelong learning.

Nils Örnebring, Saab Bofors Dynamics AB

- This education has been developed from objectives and needs in the industry. That is really a good thing. From my point of view this education should become a model for vocational education in the matter of standards and qualifications. That would also help the company managements to fulfil the demands regarding safety, health issues and risk analysis, management etcetera.



OVERALL GOALS

On completion of the course participants should:

- be able to work as skilled technicians in modern industry, dealing with explosives and flammable matter
- be able to explain the structure of explosives and flammable materials, and the reactions which can occur during making, handling and using
- be able to work as production managers and thereby participate in the development process of work, products and quality
- be able to take responsibility for safety and environmental issues concerning work, in order to reduce the risk for accidents and work-related injuries
- have developed their abilities to co-operate in order to take part in different work-teams and groups
- be able to use the computer as an efficient tool at work

EDUCATION MODEL

