



LUND
UNIVERSITY

BUSINESS
SECURITY

Training Program

- of Business Security & Lund University

We at Business Security would like to give our clients only the best and therefore we offer you Business Security training program called *network communication security*. The program is developed in collaboration with our academic partner Lund University, Faculty of Engineering. The training program consists of three different modules and these in turn consists of a number of courses.

The objective of these courses is to give the participants a deep knowledge and understanding of how today's modern communication networks work with focus on security.

Our clients will benefit from our collaboration with Lund University as some of the courses will be given at Lund University Campus by academic personnel. Furthermore all courses includes practical work in the network security laboratory.

Sometimes standard courses are not enough to meet a client's need and in these situations we develop tailor-made courses to satisfy the client's specific requirements. We treat all our client's with the highest level of confidentiality and conform strictly to our client's needs. During the course only participants from one customer attend the course at the same time.

We believe that it is important that you also find the time for your cultural and religious needs during your stay in Sweden and we will do our outmost to make the proper arrangement after your wishes.

Some courses are held at our HQ in Lund, a city that is the base for research activities for companies such as Ericsson, Tetra Pak, Gambro, Alfa Laval, Trelleborg, Sony Ericsson and many more. Business Security can integrate the benefits of research and development (R&D) going on in this area through an extensive work. Furthermore Lund is about 15 minutes drive from Malmö and about 45 minutes drive from Copenhagen airport via Öresund bridge.

Throughout the training program independent on which course you are attending Business Security provides participants with:

- Accommodation at a modern first class hotel situated in the very heart of Malmö, close to everything the city has to offer or accommodation in an apartment when attending more than one course in a row - everything at your convenience
- Meals/restaurants
- Transportation to and from hotel, transfer to and from Kastrup Airport(Copenhagen, Denmark)
- Course documents such as manuals and supplementary literature
- A tutor during the entire education program

After completion of training program independent on which course you have attended Business Security provides participants with:

- Course diploma confirming attendance
- Module certificate upon successful completion of all courses in the specific module

During your whole stay we will make sure that you are well taken care of. To get the most out of the learning process we believe in finding time for leisure as well. If you have any request at all please let us know.



Business Security HQ, Lund

Specification - modules

I. Modern communication networks module

Internetworking Principles (5 days duration)

- Communication architecture and protocols
- Transmission media and data transmission
- Circuit switching and packet switching networks

The course is intended for everybody who needs to learn about how modern communication network works with respect to services, architecture and technology. Basic computer knowledge is a prerequisite.

Internetworking Advanced (5 days duration)

- Protocol layering
- TCP/IP architecture
- Network layer - IP protocol
IP addresses, IP routing, IP Quality of Service (QoS)
- Transport layer - TCP and UDP protocols
- Application layer
- Network Management - SNMP

Prerequisite for this course is the Internetworking Principles course.

II. Secure network communications module

Security awareness (5 days duration)

- Problems in TCP/IP and their implication on security
- Espionage, sabotage, cyber security attacks

Cryptography (5 days duration)

- Symmetric and asymmetric encryption algorithms
- Stream and block ciphers
- Confidentiality, integrity and digital signatures, CA
- Key management and PKI

Prerequisite for these courses is the Internetworking Principles, Internetworking Advanced and Security awareness courses.

Communication and network security (5 days duration)

- Security mechanisms in the TCP/IP protocol suite
Security on network layer
Security on transport layer
Security on application layer

Prerequisite for these courses is module of Modern communication networks, Security awareness and the Cryptography course.

III. The art and science of secure communications module

Special topics on IT Security (5 days duration)

- Security Policy, risk management
- Security in the enterprise
- Evaluation of information security
- Key management
- Certification Authority
- E-government fundamentals
- Topics requested by customer

Prerequisite for this course is the modules of Modern communication networks and Secure network communications.

I. Modern communication networks

Internetworking Principles

Internetworking Advanced

II. Secure network communications

Security awareness

Cryptography

Communication and network security

III. The art and science of secure communications

Special topics on IT security

Lund University Profile

Lund University was founded 1666, there is 40600 students and 5000 postgraduates. Today, Lund University is the largest in Scandinavia. Its eight faculties provide courses and pursue research in almost all conceivable subjects. All the faculties of the University are involved in cooperation with industry and commerce. Some courses given are intended specifically for the continuous development of professionals. Lund has had an institute of technology for 45 years which is now part of Lund University, constituting its Faculty of Engineering.

Business Security Profile

Business Security AB is an independent Swedish company and manufacturer of secure encryption solutions for data, voice, fax, video and the Internet. We develop leading-edge encryption solutions for government entities and organizations with very stringent security requirements such as military departments, law enforcement agencies, multinational corporations and banks. So far, Business Security has delivered trusted security solutions to more than 40 countries worldwide.



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