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**ETS**

# Course Profile

Nokia VPN Gateway Administration

**ETS702**

**Duration:** 4 days

**Objectives:**

Delegates attending this course will be able to:

- D**escribe VPN technology and VPN design.
- P**erform Nokia VPN Gateway administration, configuration and management of site-to-site VPNs.
- D**eploy remote access VPNs based on Nokia VPN Gateways.
- I**nstall VPNs in differing environments and authentication models.
- D**escribe the many issues and solutions that exist in VPN environments, including routing issues and solutions to problems of authenticating IPSec users in a mobile environment.
- U**se troubleshooting tools and administrative procedures.

This four-day course is designed to provide the student with the skills to design and deploy IPSec-based VPN's in an enterprise network environment.

This course provides the information and hands-on experience necessary to deploy Nokia's proven methodology for VPN design and deployment.

**Who should attend:**

Systems administrators, Security staff, Firewall administrators, Network engineers and Reseller support staff and Installation consultants.



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## **Pre-requisites:**

Intermediate knowledge of TCP/IP packets, packet routing and addressing.  
Basic knowledge of networking concepts including network topologies, firewalls and remote access.

Understanding of the OSI model of networking protocol stacks.

## **Follow on Courses:**

None.

## **Course Style:**

This course is presented as a mixture of discussion and teaching sessions.



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## Detailed Contents:

VPN Background

Basic internet security protocol suite

IPSec

L2TP and PPTP

ESP

Authentication

Internet key exchanges

Public key infrastructure

VPN Design

Designing a VPN

VPN Tunnel Server

IPSec parameters

Firewall considerations

Nokia VPN Gateway Installation    Installing a CryptoCluster VPN Gateway

CryptoConsole management software

Building a tunnel

Configuring differing authentication

Using certificates

Monitoring and Management of Nokia VPN Gateways

Managing CryptoCluster VPN gateways

Monitoring and generating reports

Managing software upgrades



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To book this course, or to obtain more information, contact:

The Course Administrator

ETS Ltd.

Old Gunn Court

North Street

Dorking

RH4 1DE, UK

Telephone: +44 (0) 1306 504100

Facsimile: +44 (0) 1306 880820

e-mail: [sales@etsl.co.uk](mailto:sales@etsl.co.uk)

internet: [www.etsl.co.uk](http://www.etsl.co.uk)

This information is provided in good faith to represent the typical contents of the course material. The course will change as required to keep pace with technology changes and learning styles, as a result the exact contents may differ from those specified here. The benefit of instructor led training is that it will evolve to suit the needs of any specific class, therefore no warranty is given that any specific course will cover the subjects outlined here to any implied level of detail.

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