Network Security Fundamentals (ANSF)

ID ANSF   **Price** 3,150.— € (excl. VAT)   **Duration** 4 days

Who should attend

A network or help desk engineer working in a customer or partner environment that has six months to a year of experience in networking. In both wired and wireless environments.

This course is part of the following Certifications

Aruba Certified Associate – Network Security (ACA-NS)

Course Objectives

After you successfully complete this course, expect to be able to:

Protect and Defend

- Define security terminology
- Harden devices
- Secure a WLAN
- Secure a wired LAN
- Secure the WAN
- Classify endpoints

Analyze

- Threat detection
- Troubleshooting
- Endpoint classification

Investigate

- Forensics

Course Content

Security Threats and Aruba Security Strategy

- Threats Overview
- Attack Stages
- Aruba Security Strategy

Security Technologies

- Regulatory Compliance
- Secure Communications: Symmetric Encryption and Hash-Based Authentication
- Secure Communications: Asymmetric Encryption and Digital Certificates
- Secure Communications: TLS
- Authentication, Authorization, Accounting (AAA)

Harden Aruba Switches

- Hardening Overview
- Set Up Out-of-Band Management
- Authenticate Managers Securely
- Ensure Physical Security and Other Hardening Actions

Harden ArubaOS Wireless Devices

- Lock Down Administrative Access
- Lock Down Services
- Use CPSec

Enhance LAN Security

- Spanning Tree Protections
- DHCP Snooping and ARP Protection
- Secure Routing Technologies

Network Authentication Technologies

- Network Authentication
- WLAN Security—Encryption + Authentication

Enforce Edge Security with an Aruba Infrastructure

- Enforce WPA3-Enterprise
- Enforce 802.1X on the Wired Network

Enforce Role-Based Authentication and Access Control

- Aruba Role-Based Firewall Policies
- Dynamic Segmentation

Identify and Classify Endpoints

- Endpoint Classification Introduction
- DHCP Fingerprinting with ArubaOS Mobility Devices
- Aruba ClearPass Policy Manager Device Profiler
- ClearPass Device Insight

Branch Security

- Introduction to Aruba SD-Branch Solutions

Implement Threat Detection and Forensics

- Understand Forensics
- Analyze ArubaOS WIP Events

Troubleshoot and Monitor

- Introduction to Troubleshooting Authentication Issues
- Using ClearPass Tools to Troubleshoot Some Common Issues
- Packet Captures
- Monitoring

Network Security Fundamentals (ANSF)

Training Centres worldwide

Fast Lane Institute for Knowledge Transfer GmbH

Husacherstrasse 3
CH-8304 Wallisellen
Tel. +41 44 832 50 80

info@flane.ch, https://www.flane.ch