

# Network Security Fundamentals (ANSF)

**ID ANSF** Preis 3'150.– € (exkl. MwSt.) **Dauer 4 Tage**

## Zielgruppe

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.

## Empfohlenes Training für die Zertifizierung zum

Aruba Certified Associate – Network Security (ACA-NS)

## Kursziele

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

## Kursinhalt

### 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

## Weltweite Trainingscenter



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