

CPL Technical Training Certification Course Offering



CPL Technical Training

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Thales Certification Courses

Thales Cloud Protection and Licensing solutions allow organizations to enhance network access security, strengthen VPN security for remote access, protect data and keys on local and remote computers, as well as simplify password management and protection – all with the industry's broadest range of authenticators, management platforms, appliances and security applications.

Thales technical training is delivered as two separate certification programs:

- The **Associate Certification Course** provides a high level product line overview of each related product. The course is self-paced, delivered through narrated presentations and short video sessions with no lab practice.
- The **Professional Certification Course** provides in-depth technical training on a product with theoretical sessions and lab practice, in which students install and configure the product(s) or solution. The course can be delivered onsite or online (depending on the product), as instructed or self-paced training.

Students who pass the relevant certification exam are entitled to a certificate and a digital badge.

Associate Certification Courses

Thales offers the following Associate Certification Courses:

Identity and Access Management

The **Identity and Access Management Associate Certification Course** enables students to gain a better understanding of the authentication and access control solutions offered by Thales.

Students who successfully complete the certified Associate Certification Course will be able to understand Thales Authentication and Access Management product portfolio, available services and deployment features.

This self-paced certification course provides a review of Thales Authentication and Access Management products, covering cloud and on-prem solutions. Students will briefly review STA and SAS-PCE authentication services as well as Thales PKI offering. This includes the solutions architecture, deployment features, automated workflows and authentication methods. Completing this Course provides the base for all Thales authentication professional certification courses.

Course Agenda:

- Thales IAM Solutions Review (OTP & PKI)
- SafeNet Trusted Access Technical Review
- On-Boarding new accounts (OTP services)
- User Synchronization
- Push OTP Solution

Hardware Security Module (HSM)

The **HSM Associate Certification Course** enables students to gain a better understanding of the HSM products offered by Thales.

This course provides students with an introduction and overview of the world of Hardware Security Modules (HSMs). The training covers core concepts concerning all types of HSMs provided by Thales including Luna HSM, DPoD Cloud HSM, ProtectServer, and payShield. Completing this course provides the base for all Thales HSM professional level certification courses.

Course Agenda:

- Intro to HSMs and Cryptography
- Luna HSM Overview and Use Cases
- Luna HSM Security Features – Hardware and Software
- Partitions, Roles, and Authentication
- Luna HSM Technical Demo
- Managing Luna HSM's with Crypto Command Center (CCC)
- DPoD Cloud HSM Deployments
- Hybrid HSM Functionality
- ProtectServer HSM Overview and Use Cases
- Payment HSMs and payShield 10k

CipherTrust

The **CipherTrust Associate Certification Course** enables students to gain a better understanding of the Data Encryption products offered by Thales.

This course provides a technical overview of the CipherTrust Manager platform, supported connectors, applications and features through narrated presentations and demo videos. At the end of the training, the trainee will have a better understanding of the CipherTrust product offering and its supported components.

Course Agenda:

- CipherTrust – Overview & Basic Functions
- CipherTrust ProtectDB - Overview
- CipherTrust ProtectApp - Overview
- CipherTrust ProtectFile - Overview
- CipherTrust Tokenization - Overview
- CipherTrust Transparent Encryption (CTE) - Overview
- Vormetric DSM - Overview
- Data Discovery & Classification and CipherTrust Cloud Key Manager - Overview

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Professional Certification Courses

Thales offers the following Professional Certification Courses:

Identity and Access Management

The **Identity and Access Management Professional Certification Courses** are product specific. Each course is designed to cover the most relevant topics related to the implementation and deployment of Thales Authentication and Access Management solutions. The knowledge obtained is practiced and deepened through practical hands-on exercise sessions. Participants will learn how to integrate Thales authentication products into existing environments and set up secure Identity and Access Management solutions using the following products:

SafeNet Trusted Access (STA)

The **STA Professional Certification Course** is a comprehensive course focusing on our Authentication Server and our Access Management Solutions provided as SafeNet Trusted Access (STA) services.

Students will gain theoretical knowledge and execute hands-on lab sessions, while acquiring a practical understanding of how to deploy and manage STA cloud services.

Course Agenda:

- Solution Technical Overview
- On-boarding New Accounts
- Push OTP
- User Synchronization and Management
- Provisioning Rules
- STA Management Consoles
- Authentication Agents
- Account Manager and Operator Roles
- Alerts and Reporting
- Managing Token Policies
- Pre-authentication Rules
- Application Integration with STA
- Access Management Policies
- Management through API Calls

SafeNet Authentication Service-Private Cloud Edition (SAS-PCE)

The **SAS SPE/PCE Professional Certification Course** is offered to engineers who have completed the STA Cloud Authentication Certification course.

In this advanced training, students will focus on setting up the SAS PCE/SPE (on premise) authentication server, organization on-boarding, user management, solution integrations, server replication, and troubleshooting skills. The majority of this course consists of hands-on lab practice.

Course Agenda:

- SAS SPE/PCE Server Installation
- Token Provisioning (focusing on MobilePASS)
- NPS Agent for RADIUS Authentication
- FreeRADIUS Server and Agent Setup
- LDAP Integration and Auto Provisioning Services
- PCE Server Integration with ProtectServer HSM
- Management through API - Review
- Server Management (Licensing, Allocation Handling, and more)
- Full High Availability Configuration (SAS HA Controller Service; Server Replication)

Thales PKI Solutions

The **Thales PKI Professional Certification Course** focuses on Thales PKI tokens, IDPrime Smart Cards, middleware and vSEC:CMS management system. Through the lab sessions, students will practice various security solutions, and certificate-based authentication, enrolling software and hardware authenticators, and more.

Course Agenda:

- Authenticators (Complete Smart Card and Token offering including eToken 5300)
- SafeNet Authentication Client (SAC) and SAC Minidriver implementing USB Tokens and new Thales Smart Cards
- vSEC:CMS – Working with the Activation Tool, SQL and HSM Support, Enrolling Certificates to Smart Card, Installing and Configuring VSEC Self-Service and VSEC Virtual Smart Card

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Hardware Security Module (HSM)

The **HSM Professional Certification Courses** provides students with in depth knowledge of the HSM product that Thales offers. Each course provides a technical, deep dive into the solution architecture, deployment, administration and maintenance of the HSMs. Students will learn about cloud and physical HSM models as well as perform hands-on exercises to install, configure, and troubleshoot the product in a live classroom environment or hosted in the cloud.

Luna HSM

The **Luna HSM Professional Certification Course** focuses on the main HSM types in use, and in particular, the SafeNet Luna Network HSM. The theoretical part of this course focuses on the product description, solution architecture, deployment, and maintenance, while the practical sessions include product administration, integration, and troubleshooting. These are all hands-on sessions in which a Luna HSM is installed and configured to demonstrate a working solution.

Course Agenda:

- Hardware Security Modules Overview
- Luna Product Family Overview
- Device Offering
- Order Information and Licensing
- Common Use Cases
- Device Architecture
- Usage Schemes
- Troubleshooting
- System Configuration
- Client Configuration
- High Availability
- Migration Methods
- Backup Methods
- Audit and Logging
- HSM Tools
- Functionality Modules
- APIs

Data Protection on Demand (DPoD)

The **Data Protection on Demand (DPoD) Professional Certification Course** provides a full overview of the platform, whether you are a service provider or a security administrator for your organization. In this training you will learn about the DPoD marketplace, the different use cases, success stories and integrations supported by the platform.

The course also provides a deeper dive into the technology behind DPoD, showcasing the different mechanism for enabling advanced features such as high availability, backup, logging and user management. If you are interested in migrating existing cryptographic data to or from DPoD, you will find the necessary information in this training as well.

This certification course also includes various labs for different user roles to help you better understand the operation and maintenance revolving around the DPoD platform.

Course Agenda:

- Introduction to the DPoD platform
- Detailed use cases
- Client configuration
- Roles in DPoD
- Product operation & configuration
- Client setup & configuration
- Hybrid HSM deployments
- Key migration procedures
- DPoD integrations
- Troubleshooting DPoD

payShield HSM

The **Thales payShield Professional Certification Course** is onsite and instructor led. It provides an overview of how the payShield 10k Security Module (HSM) is used in a banking environment.

This course will give you a detailed understanding of how to operate the HSM and carry out key management duties.

Students will develop the knowledge and practical skills needed to set up, deploy and maintain payShield Hardware Security Modules (HSMs) and maximize the value of these devices for your organization. In the hands-on sessions, you will master common installation and administration tasks that prepare you to set up, use and manage payShield HSM devices in your own environment - from taking the device out of the box to configuring a fully functional system. Topics include configuration, installation, key management, smart card management, disaster recovery and maintenance. payShield Manager & payShield Monitor are also part of this course.

This course is designed for system administrators and application developers with a basic understanding of cryptography and key management, this class covers the role played by the payShield family of payment HSMs in securing transactions for financial applications along with best practices for rolling out these devices in your organization.

Course Agenda:

- Payment World Introduction
- payShield HSM introduction
- Product Basics
- Product Configuration
- payShield Manager
- Console Commands
- Client Configuration
- Host Functions
- Product Management
- Product Monitoring
- Magnetic Stripe and EMV Technology
- HSM Use Cases

ProtectServer HSM

The **ProtectServer HSM Professional Certification Course** covers basic configuration and administration of ProtectServer HSM and its toolkits.

The students will learn about the eco-system in which ProtectServer operates in, how to operate the different toolkits for various environments (C, Microsoft, etc.) as well as experience the simulation platform of ProtectServer.

Course Agenda:

- ProtectServer Overview
- Device Offering
- Common Use Cases
- Device Architecture
- Usage Schemes
- System Installation and Configuration
- Basic Configuration
- High Availability
- Backup Methods
- Logging
- HSM Tools
- Functionality Modules

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Data Encryption

The **Data Encryption Professional Certification Courses** provide a technical, deep dive into Thales encryption solutions. Each course covers the solution's architecture, deployment, administration and maintenance. Students will learn about physical and virtual solutions while performing hands-on exercises to install, configure, and troubleshoot the product in a classroom environment or hosted in the cloud.

CipherTrust Manager

The **CipherTrust Manager Professional Certification Course** focuses on the CipherTrust Data Security platform and its integrated solutions, including CipherTrust Cloud Key Manager (CCKM) and Data Discovery and Classification (DDC). CipherTrust Manager is built on prevailing cloud-based technologies, providing a cloud friendly, key management solution. It employs a REST interface and a micro service based architecture, allowing for easy deployment and scalability within your environment. With this new architecture, the CipherTrust Manager simplifies administration, helps ensure compliance, and maximizes security by providing centralized management of keys, policies, and essential functions.

Thales CipherTrust Manager offers key management capabilities that can be integrated with virtually any commercial encryption product. Supported technologies include:

- SafeNet Luna Network HSM and AWS HSM Partitions
- Application Encryption
- Database Encryption, including Native Database Encryption
- File and Storage Level Encryption Solutions

Course Agenda:

- CipherTrust Management Server - Terminology, Components, Solution Architecture & System Requirements
- New CipherTrust Manager Features
- CipherTrust Manager First Initialization
- CipherTrust ProtectDB
- CipherTrust ProtectApp
- CipherTrust ProtectFile
- CipherTrust Tokenization
- CipherTrust Transparent Encryption (CTE)
- Licensing Schemes
- CipherTrust Cloud Key Manager - Product Overview
- Data Discovery & Classification
- Vormetric DSM – Review

Vormetric DSM

The **Vormetric Data Security Manager (DSM) and Vormetric Transparent Encryption (VTE) Professional Certification Course** incorporates theoretical knowledge, as well as hands-on lab practice of the Vormetric Data Security Platform products.

In this course, students will learn how the DSM creates, stores and manages the encryption keys that protect data, how administrators specify data access policies, administer DSM users and logical domains, generate usage reports, register new hosts, access security logs, manage third-party keys, digital certificates, and more.

Course Agenda:

- Vormetric Solution Overview
- DSM and VTE Product Overview
- Users and Security Domains
- Policies and Keys for Transparent Encryption
- Securing Big Data
- Bring Your Own Key to the Cloud

High Speed Encryption (HSE)

Thales High-Speed WAN Encryptors provide the fastest, simplest, and easiest way to integrate network security solutions for enterprise and government organizations that need to protect mission-critical data. With organizations expanding and becoming more geographically dispersed, the global collaboration between partners, suppliers, and customers is forcing a requirement for secure and transparent high-speed communications across the network.

In this **HSE Professional Certification Course**, students will participate in classroom sessions covering the available network encryption products, the solution's architecture, installation, configuration and management options. Classroom sessions are followed by hands-on lab practice in which students install and configure network encryption products.

Course Agenda:

- Deployment and Commissioning
- Management and Operational Modes
- HSE Advanced Topologies
- Transport Independent Mode (TIM)
- Appliance Models
- HSE Virtual Appliance Lab Setup
- Integration with Key Management Solutions

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