THALES

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 offer the following 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.

- The **Advanced Certification Course** is an expert-level certification that requires a comprehensive understanding of the relevant product. It extends the knowledge and experience obtained in the Professional Certification Course. The course can be delivered onsite or online.

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

Note: Professional-level certification is a prerequisite for the advanced training.

Associate Certification Courses

Thales offers the following Associate Certification Courses:

Thales OneWelcome Customer Identity & Access Management

The **Thales OneWelcome Associate Certification Course** enables students to leverage Consumer Authentication and Access Management Solutions offered by Thales.

Students who successfully complete the certified Associate Certification Course will be able to understand CIAM concepts, as well as get familiar with the Thales OneWelcome cloud-based Identity Platform, the range of Identity Applications and various customer identity validation methods.

This self-paced certification course reviews the Thales OneWelcome cloud-based CIAM solution, covering the core solution architecture, Identity Applications, deployment features, automated workflows, and authentication methods. Completing this course provides the base for all Thales authentication professional certification courses.

Course Agenda:

- CIAM General Concepts
- OneWelcome High-Level Product Overview
- Identity and Access Core Outline
- Identity Applications
- B2B Identity Delegation & Access Management
- End-User Self-Service options
- Integration Platforms

Identity and Access Management (IAM)

The **Identity and Access Management Associate Certification Course** enables students to gain a better understanding of the Workforce Authentication and Access Control Solutions offered by Thales.

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

This self-paced certification course covers the 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 key features and architecture, automated workflows, and authentication methods. Completing this course provides the base for all Thales authentication professional certification courses.

Course Agenda:

- Introduction to Thales Identity and Access Management
- Review Thales' IAM Cloud OTP Solutions - SafeNet Trusted Access (STA)
- STA Solutions – Intro Videos
- Application Integration and SSO
- Thales IAM On-Premises OTP Solutions – SAS PCE/SPE
- Thales PKI Offering - Supported CMS, Middleware, Authenticators and Virtual PKI Solution (IDPV)

Thales Digital Banking Identity Cloud (IdCloud)

The IdCloud Associate Certification Course is designed to equip you with expertise in the Thales Digital Banking Identity Cloud product suite (aka: IdCloud). IdCloud is a robust platform engineered to safeguard the onboarding process and secure access to digital banking services through identity-proofing and robust customer authentication protocols. Elevating customer satisfaction, IdCloud also facilitates seamless identity affirmation and implements risk-based authentication strategies.

This associate-level training program offers an overview of the IdCloud solution, encompassing its key features, services, architectural components, and real-world use cases.

Theoretical modules delve into the intricacies of IdCloud Identity Proofing, Authentication, and Risk Management services, exploring integrations, industry terminology, and practical applications through compelling use-case scenarios. These engaging sessions are facilitated through narrated presentations.

An active internet connection is required to access the online training sessions.

Course Agenda:

- Digital Banking General Concepts
- IdCloud High-Level Product Overview
- IdCloud Onboarding
- IdCloud Strong Customer Authentication (SCA)
- IdCloud Fraud Prevention (IFP)

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 Data Security Platform (DSP)

The **CipherTrust Data Security Platform (DSP) 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 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 Data Protection (CDP) - Overview
- CipherTrust Application Data Protection (CADP) - Overview
- CipherTrust Vaulted (CT-V) /Vaultless Tokenization (CT-VL) - Overview
- CipherTrust Transparent Encryption (CTE) – Overview
- CipherTrust CTE Ransomware Protection (CTE-RWP)
- CipherTrust Data Security Platform Services (CDSPaaS)
- CipherTrust and Key Management Interoperability Protocol (KMIP)
- CipherTrust Secret Management (CSM) powered by the Akeyless Vault Platform
- CipherTrust Data Discovery & Classification
- CipherTrust Cloud Key Manager - Overview

Thales CPL Technical Training Course Offering Brochure_April2024_RevO
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Professional Certification Courses

Thales offers the following Professional Certification Courses:

Identity and Access Management (IAM)

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
- Log Streaming

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 Overview and Installation
- Radius-Based Authentication:
    - NPS Agent for RADIUS Authentication
    - Free RADIUS Server and Agent Setup
- LDAP Integration and Auto Provisioning Service
- PCE Server Integration with ProtectServer HSM
- Management through API - Review
- Server Management (Licensing, Logging, and more)
- Full High Availability Configuration over MySQL (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

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 10K - Payment HSM

The **payShield 10K Professional Certification Course** is instructor-led, both online or onsite. 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
- 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

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 Data Security Platform (DSP)

The **CipherTrust Data Security Platform (DSP) Professional Certification Course** focuses on the CipherTrust Data Security platform and CipherTrust Cloud Key Manager (CCKM). CipherTrust 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, CipherTrust simplifies administration, helps ensure compliance, and maximizes security by providing centralized management of keys, policies, and essential functions.

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

- Application Encryption
- Database Encryption, including Native Database Encryption
- File and Storage Level Encryption Solutions

Course Agenda:

- New CipherTrust Features
- CipherTrust First Initialization
- CipherTrust Tokenization CT-VL
- CipherTrust Transparent Encryption (CTE)
- Licensing Schemes
- CipherTrust Cloud Key Manager - Product Overview
- CDSP KMIP Integration with VMWare vSphere
- CTE Ransomware Protection
- CDSP CAKM Client for Oracle

CipherTrust Data Discovery and Classification (DDC)

CipherTrust Data Discovery and Classification is part of Thales next-generation CipherTrust Data Security Platform (CDSP).

Note: The prerequisite for the DDC course is that students must have taken the CipherTrust Professional Certification Course.

This self-paced online Professional Certification Course focuses on the CipherTrust Data Discovery and Classification tool. Data Discovery and Classification (DDC) enables organizations to map their data assets in terms of their location, type, and usage.

Complete visibility of sensitive data is attainable, with proficient data discovery, classification, and risk analysis across cloud, big data, and traditional environments.

DDC offers a more streamlined, accurate and unattended (or automated) approach in comparison to sensitive data searches using manual methods. If you are using a data discovery tool from another vendor you should still take a closer look at DDC -it likely covers additional data storage types, extending the range of structured and unstructured data that can be analyzed while offering higher levels of accuracy by finding sensitive data other tools often miss.

Course Agenda:

- DDC Product Overview and Technical Overview
- Connecting the TDP to DDC
- DDC Scans and Reports, CTE Intelligent Remediation

The training sessions will be in the form of narrated presentations. Hands-on lab practices will be available over a remote virtual lab.

Student interaction and email-based Q&A with the instructor is available throughout the entire course, during regional business hours.

An active internet connection is required to attend each online training session and view the course material.

This certification course also includes self-paced lab sessions in which the student will install and configure the products.

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 also include 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

Advanced Certification Courses

Thales offers the following Advanced Certification Courses:

Thales OneWelcome

The **Thales OneWelcome Advanced Certification Course** is a 5-day online program that provides hands-on experience on the configuration aspects of the OneWelcome solution as well as a thorough understanding of the product's technical aspects.

This training consists of a combination of technical content and hands-on labs as follows:

- Online self-paced lectures provide an in-depth technical understanding of the product, including its strengths, limitations, and market comparison
- Online self-paced hands-on labs allow participants to apply the concepts of the lectures while working on practical exercises that will help them to understand how to implement the CIAM solutions in an efficient manner
- Participants will be provided access to the eLearning portal as well as to the online lab environment for this training.

Course Agenda:

- Functional Architecture
- Identity & Access Core (online instructor led)
- Self-Service
- Account security
- Events & Notification Hub
- Consent & Preference Management
- User Journey Orchestration (online instructor led)
- Multi Branding
- External Integrations
- Mobile Identity
- Delegated User Management
- Externalized Authorization

Trainers will be available during the scheduled week to support participants with any issues they might encounter. Trainers will also facilitate a Q&A slot at the end of each day to answer questions if any.

Note: Professional-level certification is a prerequisite for the advanced training.

CipherTrust Data Security Platform (DSP)

The **CipherTrust Data Security Platform (DSP) Advanced Course** focuses on advanced integrations of the CipherTrust Data Security Platform with 3rd-Party Applications. The course is delivered as on-site and instructor-led training (in the classroom).

CipherTrust is built on prevailing cloud-based technologies, providing a cloud friendly, key management solution. CipherTrust offers key management capabilities that can be integrated with virtually any commercial encryption product.

Course Agenda:

- CipherTrust Data Discovery and Classification
- CipherTrust Data Protection Gateway (DPG)
- CipherTrust Transparent Encryption (CTE) with LDT
- CipherTrust Cloud Key Manager (CCKM)
- CipherTrust CTE with K8
- CipherTrust CTE Ransomware Protection
- CAKM Agent, encrypting the MSSQL Database with EKM

Note: Professional-level certification is a prerequisite for the advanced training.

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