HAACS Integrator Certification Training

Configuring, deploying and validating High Assurance Access Control Systems.

Duration	*13 hours 20 minutes online learning (excluding assessments) + 2 days in-person practical*	**Audience**	*Security Integrators, Access Control Engineers, Security System Installers*
Format	*Self-paced online learning followed by in-person practical training and examination*	**Code**	*HAACS-I*

Course Description

The HAACS Integrator learning path provides security professionals with the technical knowledge and practical skills required to configure, deploy and validate High Assurance Access Control Systems.

Through comprehensive technical training covering encryption, RFID technologies, secure communication protocols, system architecture and configuration, learners develop an understanding of how to implement secure access control solutions and identify vulnerabilities that can compromise system security.

The course combines self-paced online learning with mandatory two-day, in-person practical training and examination, where participants must demonstrate their ability to configure, test and validate a High Assurance Access Control System.

Successful completion of both the online assessments and the practical examination is required to achieve Integrator certification]

Learning Objectives

By the end of this course, participants will be able to:

- *Configure High Assurance Access Control Systems, including MIFARE DESFire credentials, readers, encoders and supporting infrastructure.*
- *Implement secure cryptographic key management practices, including key storage, diversification and rotation.*
- *Deploy and validate secure reader-to-controller communication protocols, including OSDP and SSCP, ensuring appropriate encryption and configuration.*
- *Configure and troubleshoot advanced High Assurance features, including DESFire templates, SAM AV3, Random UID and EV2 Secure Messaging.*
- *Test, diagnose and resolve system configuration and communication issues using appropriate diagnostic tools and verification methods.*
- *Demonstrate the ability to build and validate a functional High Assurance Access Control System independently during a practical examination.*
- *Apply secure configuration, maintenance and operational practices to preserve High Assurance throughout the system lifecycle.*

Prerequisites

- *Successful completion of both SC-STC-001 (Synergis Technical Certification) and SC-ETC-001 (Enterprise Technical Certification).*
- *Working knowledge of Security Center, Synergis and access control system installation and configuration.*
- *Access to the online learning platform to view instructional materials and complete assessments.*
- *No dedicated hardware or practical training environment is required for the self-paced online modules.*
- *Successful completion of all mandatory online assessments is required before attending the in-person practical training and examination.*

Course Outline

#	Title	Key Topics	Duration	Format
1	*Introduction*	*Course overview, learning paths, certification requirements and navigation.*	*10 min*	*Self-paced online*
2	*Theory*	*High Assurance principles, vulnerabilities, cryptography, RFID, MIFARE DESFire, key management and communication protocols.*	*6 hr 50 min*	*Self-paced online*
3	*Preparation*	*HAAC architectures, supported devices, DESFire configurations, SAM AV3 and deployment requirements.*	*40 min*	*Self-paced online*
4	*Configuration*	*DESFire templates, encoders, cryptographic keys, SAM AV3, OSDP/SSCP readers, secure messaging and troubleshooting.*	*4 hr 40 min*	*Self-paced online*
5	*Using*	*Credential encoding and enrolment, monitoring, reporting and operational security.*	*1 hr*	*Self-paced online*
6	*Practical Training – Day 1*	*Technical recap, product updates and guided HAACS system configuration.*	*1 day (8 hours)*	*In-person practical*
7	*Practical Examination – Day 2*	*Independent HAACS system deployment, configuration, testing and validation.*	*1 day (8 hours)*	*In-person practical*

Materials & Equipment

Self-Paced Online Learning

- *Access to the Rise 360 online learning platform to view instructional content and complete assessments.*
- *A computer or compatible device with an internet connection and audio playback capabilities.*
- *Access to accompanying course resources, including technical documentation, reference materials and optional supplementary learning content.*
- *No dedicated Security Center installation, access control hardware or practical training environment is required for the online modules.*

In-Person Practical Training & Examination

- *Instructor-provided HAACS training environment, including Security Center software, Synergis infrastructure, readers, encoders, credentials and supporting access control hardware.*
- *Required configuration utilities, diagnostic tools and supporting technical documentation.*
- *Individual training and examination workstations or lab environments for participants*

Assessment & Certification

How mastery is measured

Learners are assessed through five mandatory online, multiple-choice assessments delivered through the learning platform, followed by a two-day in-person practical training and examination program.

Online assessments evaluate technical understanding, security awareness, configuration knowledge and troubleshooting decisions. Questions are randomly selected from role-specific question banks.

Following successful completion of the online assessments, learners attend two days of in-person practical training and examination. Day 1 consists of instructor-guided system configuration and troubleshooting. Day 2 is an independently completed practical examination requiring participants to build, configure, test and validate a High Assurance Access Control System from scratch.

Passing criteria

- *Learners must achieve a minimum score of 80% in each mandatory online assessment.*
- *The Theory, Preparation, Configuration and Using assessments must be passed to progress through the online learning path.*
- *The Final online Assessment permits a maximum of three attempts.*
- *Successful completion of all mandatory online assessments is required before attending the two-day in-person practical.*
- *Integrator certification is awarded only after successful completion of the independent practical examination on Day 2.*

***Note:** Successful completion of the online assessments does not award Integrator certification. Certification is awarded only after successful completion of the mandatory in-person practical examination.*