

INTRODUCTION TO RFID TECHNOLOGY

Course ID	STID-ACD-GEN-04
Duration	1/2 day
Format	VILT / ILT / OST
Certified Training	Yes
Languages	FR / EN / IT / PL / ES

STID SUPPORTS YOUR GROWTH AND HELPS YOU EASILY INTEGRATE RFID TECHNOLOGY

STid guides you through the integration of RFID technologies by offering a comprehensive and practical training program. This course will enable you to master the fundamentals of automatic identification, optimize your existing solutions, and strengthen your technical and commercial expertise.

Through real-world case studies and an application-focused approach, you will develop the skills necessary to integrate, install, and effectively market RFID solutions. This training is designed for resellers, integrators, and distributors looking to bring significant added value to their clients.

PREREQUISITES

- No specific prerequisites are required; this training is ideal for beginners in the field of RFID technologies.
- An interest in the practical applications of RFID solutions is recommended.

AUDIENCE

This training is intended for security and access control professionals, including:

- Installers & Integrators
- Administrators & Security Managers
- Product Managers
- Sales Teams

LEARNING OBJECTIVES



Understand the opportunities and challenges associated with RFID usage in business processes.



Identify market trends and strategic perspectives to anticipate RFID evolution and applications.



Master key elements for designing and deploying an RFID project aligned with business needs.



Carry out preventive and corrective maintenance to maintain optimal performance and reliability of STid systems.



Combine theory and practice through an immersive training led by an expert in radiofrequency electronic systems.



Effectively utilize the provided training materials to deepen and apply acquired knowledge.

DETAILED COURSE OUTLINE

INTRODUCTION TO RFID TECHNOLOGIES

- History and evolution of RFID technologies
- Terminology and classification of radio frequencies
- Physical principles and OSI model applied to RFID

MODULE 1: RFID SYSTEM STANDARDS AND REGULATIONS

- International regulations and standards (ISO, EPC, NFC)
- Radiofrequency standards and regulatory framework
- Security and human exposure considerations

MODULE 2: RFID TECHNOLOGIES AND KEY COMPONENTS

- Overview of major RFID technologies: 125 kHz, 13.56 MHz, and UHF
- Functionality and characteristics of RFID chips and transponders
- Communication between readers and tags: protocols, air interface, and base stations
- Differences and use cases of 125 kHz, 13.56 MHz, and UHF technologies

MODULE 3: RFID APPLICATIONS AND SOLUTIONS

- Use of RFID technologies in various sectors: access control, logistics, industrial maintenance
- Value chain and key players in the RFID market
- Product offerings and practical demonstrations
- Hands-on experimentation with RFID base stations and transponders (125 kHz, 13.56 MHz, UHF)

MODULE 4: INTEGRATION AND DEPLOYMENT OF RFID SOLUTIONS

- Methodology for implementing an RFID project
- Integration of RFID systems into existing infrastructures
- Data management and interfacing with information systems
- Case studies and practical business applications

MODULE 5: SECURITY AND OPTIMIZATION OF RFID SYSTEMS

- Confidentiality and protection of RFID data
- Strategies for securing RFID transmissions
- Performance optimization and interference management
- Best practices for secure and efficient RFID implementation

CERTIFICATION

Certificate of Completion awarded upon successful completion.

LEARNING FORMAT



ILT (Instructor-Led Training) :

Experience hands-on training at STid's headquarters, led by experts in a fully equipped environment. Benefit from live demonstrations, interactive exercises, and direct engagement with STid specialists for an optimal learning experience.



VILT (Virtual Instructor-Led Training) :

Join a real-time, interactive training session from anywhere. Delivered via video conferencing, VILT provides expert-led instruction, practical exercises, and live Q&A, ensuring the same high-quality.



OST (On-Site Client Training) :

Tailored training delivered at your site, adapted to your infrastructure, security needs, and equipment for a fully personalized learning experience.

SCHEDULE AND REGISTRATION

To check the schedule, pricing, or register for the course:



customer.training@stid.com

Learn more at:

www.stid.com

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