

6 Training: RFID & UHF technologies Aerospace tracking applications & requirements

Boost your RFID expertise

STid supports your development and helps you easily integrate RFID technology!

With our training program, you will gain an in-depth understanding of RFID technologies and will be able to update your existing applications in order to enjoy the latest features and get the most out of your equipment. Learn new, cutting edge skills to help you integrate, install and sell your RFID technologies and equipments. Our goal is to offer STid expertise to support your organization, providing both technical and commercial knowledge that is specific to your field. We bring added-value to your RFID retail, integration or distribution activities.

This module focuses on developing UHF technologies in the automatic identification of aerospace objects, metal parts, logistics units, in line with the EPC1 GEN2 / ISO18000-6C, ATA Spec 2000 Chap 9-5 and DO160 / SAE AS5678 standards. You will learn all about UHF technologies, which will help you to meet the requirements for your specifications in harsh aerospace environments.

You will know the main applications thanks to aerospace identification and tracking practical trainings.

► Customer Benefits

- Discover the ins and outs of UHF technology: properties, applications, specific features.
- Gain complete technical skills which will let you develop aerospace tracking applications using UHF RFID technology.
- Master the key elements for implementing a strategic project that uses UHF technology.

► Teaching methods

You will receive both theoretical and practical training, led by a professional instructor specializing in radiofrequency electronic systems. Written materials are provided during training.

► Target audience

Innovation and Strategic Investment Programme Managers, Supply Chain, Project Managers, Product Managers, Sales Managers, Engineers and Technical Managers.

► Prerequisites

Advising, integrating, installing or using RFID solutions

► Handouts

- Paper materials
- Training certificate



More than a RFID manufacturer...

Reinforce your skills, update your knowledge about the various RFID technologies, distance yourself from your competition by getting innovative know-how: these are STid's goals and it aims to achieve them by offering RFID trainings closely corresponding to the needs of your professions.

STid provides a wide range of training services to its international client-base through an excellent team of trainers who bring knowledge and expertise to your company. We offer custom-made trainings for your sales and technical services. STid is a training organization declared under the activity number 93 13 13328 13.

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Strengths of the training:

- **Method and tools:** participants receive handouts specific to each RFID module.
- **Case studies based on real-life situations:** adapted from situations encountered in all kinds of organizations.
- **Intensive and comprehensive modules:** covering all fields indispensable to the application of RFID technology.

Schedule

Morning: 9H00 to 12H30

Introduction to UHF RFID technology	<ul style="list-style-type: none">• History, terminology• Radiofrequency classification• Physical principles, OSI model
UHF RFID standards	<ul style="list-style-type: none">• Standardization• Radiofrequency regulations• Human Exposure• SAE 5678 et ATA Spec.2000
UHF RFID chips	<ul style="list-style-type: none">• Memories: sizes, structures• Intrinsic features• Transponder examples
UHF RFID base stations & antennas	<ul style="list-style-type: none">• Block diagram• Antenna cables• Antenna structures, models & features• Air Interface description

Afternoon: 14H00 to 17H30

Characterization of an identification application in an aeronautical context	<ul style="list-style-type: none">• Introduction to "RFID AERO" project case study• Requirements, constraints and definition of solutions related to position of RFID tags & antennas in a helicopter• Information systems and RFID data processing issues
Base station interface & protocol	<ul style="list-style-type: none">• Protocol presentation & structure• Details of each command
Case studies	<ul style="list-style-type: none">• Demonstration with 30 RFID UHF tags• Case study with a RFID UHF USB reader
Part number	FORMATION_CAT2_N6



Choose the training site of your team: at our headquarters (13, Gréasque, France) or directly on your site.



Funded training organization

- Activity number: 93 13 13328 13



*For inter-company training at our Gréasque site. For any inter-company training requests and/or training at your site, please contact us for a quote.

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