

Essential RFID

A 2 day training course



Description

This training course focuses on the technologies used in Radio Frequency Identification (RFID).



Key outcomes

By the end of the course delegates will be able to:

- ✓ Describe the RFID architecture.
- ✓ Design RFID systems.
- ✓ Evaluate tag types.
- ✓ Recognise common RFID problems.



Training approach

This structured course uses Instructor Led Training to provide the best possible learning experience. Small class sizes ensure students benefit from our engaging and interactive style of teaching with delegates encouraged to ask questions throughout the course. Quizzes follow each major section allowing checking of learning.



Details

Who will benefit?

RFID technologists and system engineers.

Prerequisites

RF Fundamentals

Duration: 2 days

Customer rating:



Generic training



Generic training compliments product specific courses covering the complete picture of all relevant devices including the protocols "on the wire".

"Friendly environment with expert teaching that teaches the why before the how."
G.C. Fasthosts

Small class sizes



We limit our maximum class size to 8 delegates; often we have less than this. This ensures optimal interactivity between delegates and instructor.

"Excellent course. The small class size was a great benefit..."
M.B. IBM

Hands On training



The majority of our courses use hands on sessions to reinforce the theory.

"Not many courses have practice added to it. Normally just the theoretical stuff is covered."
J.W. Vodafone

Our courseware



We write our own courses; courseware does not just consist of slides and our slides are diagrams not bullet point text.

"Comprehensive materials that made the course easy to follow and will be used as a reference point."
V.B. Rockwell Collins

Customise your course



Please contact us if you would like a course to be customised to meet your specific requirements. Have the course your way.

"I was very impressed by the combination of practical and theory. Very informative. Friendly approachable environment, lots of hands on."
S.R. Qinetiq

Essential RFID

Course content

What is RFID?

Review of RF basics, what is RFID, RFID history, RFID base system architecture, frequency bands used by RFID, comparison with barcodes.

RFID applications

Supply chain, asset tracking, theft reduction, retail, access control, tolls.

Tags

Tag features, types of tag, passive and active, chips, read only, read write, affixing tags, selecting location to affix a tag, tag orientation and location, tag stacking, impact of rate of movement, tag data formats.

Interrogators/readers

Interrogation zones, interrogator types, antennas, read distance tests, multiple interrogators, synchronisation, dense interrogator environment issues. RFID peripherals.

Standards and regulations

Global regulatory requirements, regional regulatory requirements, ISO, ETSI, FCC, EPC, safety regulations/issues.

Testing and troubleshooting

Read rate problems, improperly tagged items, tag failure.

RFID system design

Antenna types, interference, antenna location and spacing, how many antennas? How many interrogators? tag types, grounding considerations, cabling, site diagrams.

