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## American RFID Solutions Web Based Training Guide



### Web Based Training Curriculum

#### RFID Tracks Include:

- ◆ RFID Fundamentals
- ◆ CompTIA RFID+
- ◆ ISCEA RFIDSCM

#### Individual RFID Classes on:

- ◆ Transponders/Tags
- ◆ Interrogators/Readers
- ◆ Standards and Regulations
- ◆ RF Physics
- ◆ Site Survey
- ◆ Installation
- ◆ Testing and Troubleshooting
- ◆ Peripherals
- ◆ ROI
- ◆ Supply Chain Management
- ◆ Best Practices
- ◆ More

### ISCEA Authorized Quality Curriculum for RFIDSCM Web Based Training



Guaranteed Web Based Training for the  
RFIDSCM Certification Exam.



## Web Based Training

### RFID Fundamentals Class Descriptions

Class: RFID Business Fundamentals

Duration: 30 minutes

Topic areas include:

- RFID Pre Assessment with Answer Key
- RFID History
- RFID Architecture Introduction
- RFID versus Barcode
- Privacy and Use Cases

Class: RFID Technology Fundamentals

Duration: 45 minutes

Topic areas include:

- Radio Frequency Fundamentals
- RF Simple Radio
- Radio Theory
- RFID Technology
- RFID Basics
- Tags
- Antennas
- Readers

### RFID+ Class Descriptions

Class: RFIDSCM Introduction

Duration: 30 minutes

Topic areas include:

- RFID Pre Assessment
- RFID+ Preparation Introduction
- RFID History
- RFID Tags
- RFID Antennas
- RFID Readers

Class: RFIDSCM Standards and Regulations

Duration: 60 minutes

Topic areas include:

- RFID Standards Bodies
- RFID Standards
- RFID EPCglobal Introduction
- EPCglobal Architecture Framework
- EPCglobal Tagging Standards
- Government Regulations
- Human Safety Regulations



## Web Based Training

### Class: RFIDSCM Installation

Duration: 45 minutes

Topic areas include:

- RFID Installation Procedures
- Unpacking and Assembly
- Reader Operation
- Antenna and Cabling
- Post Install Troubleshooting

### Class: RFIDSCM Testing and Troubleshooting

Duration: 60 minutes

Topic areas include:

- Troubleshooting Techniques
- RFID Troubleshooting
- RFID Read Zone Troubleshooting
- Read Zone Optimization

### Class: RFIDSCM Design Selection

Duration: 45 minutes

Topic areas include:

- Design Selection
- Frequency Selection
- Tag Selection
- Reader Selection
- Antenna and Cable Selection
- Triggering Devices
- Tag Separation

### Class: RFIDSCM RF Physics

Duration: 60 minutes

Topic areas include:

- Theory of Radio Operation
- RF Theory
- Electromagnetic Waves
- Decibels
- Path Loss Calculations
- Read Ranges
- Link Budgets
- System Margin

### Class: RFIDSCM Peripherals

Duration: 45 minutes

Topic areas include:

- RFID Printers
- Ancillary Devices
- Automated Label Applicator
- Feedback Systems
- Real Time Location Systems

### Class: RFIDSCM Site Analysis

Duration: 45 minutes

Topic areas include:

- Site Analysis
- Site Analysis Preparation
- Six Step Site Analysis
- RF Interference Analysis
- Isolating Interference



## Web Based Training

Class: RFIDSCM Tag Knowledge  
Duration: 75 minutes

Topic areas include:

- Introduction to Tags
- Tags vs. Barcodes
- Tag Anatomy
- Tag Communication Techniques
- Tag Frequencies
- Tag Classifications
- Tag Power Source
- Tag Features
- Tag Placement
- Tag Placement Testing

Class: RFIDSCM Best Practices  
Duration: 30 minutes

Topic areas include:

- How to Troubleshoot Poor Read Rates
- Proper Tag Placement
- RF Properties of Materials
- Proper Tag Orientation and Movement
- Successful X-Ray Reads
- Installation Best Practices
- Dynamic vs. Static Physical Domains
- Environmental Considerations
- Business System Considerations
- The Importance of Site Surveys

Class: RFIDSCM Interrogator Zone Basics  
Duration: 90 minutes

Topic areas include:

- Interrogator Functionality
- Interrogator Components
- Input / Output Devices
- Networking
- Interrogator Types
- Configuration of Interrogator Zones
- Read Zone
- Anti-collision Protocols
- Dense Interrogator Environment
- Multiple Interrogator Installations

Class: RFIDSCM ROI  
Duration: 45 minutes

Topic areas include:

- Targeting Value
- Analyzing Return
- Growing Benefits
- Pareto Principle
- Return on Investment
- Cost/Benefit Analysis
- Margin and Capital Turnover
- Net Present Value
- Hard vs. Soft Returns
- Pilot Lifecycle
- Key Performance Indicators



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## Web Based Training

### Class: RFIDSCM Supply Chain

Duration: 30 minutes

Topic areas include:

- Supply Chain Management Process
- Logistics
- Difference Between Products and Processes
- SCM Value Add
- RFID Competitive Advantage
- RFID Influence on Transaction Costs

### **Practice Exams\***

#### RFIDSCM Practice Exam 1

Duration: 90 minutes

Includes 81 RFIDSCM practice questions

#### RFID+ Practice Exam 2

Duration: 90 minutes

Includes 81 RFIDSCM practice questions

\* Two 81 question practice exams are included when purchasing the RFIDSCM Preparation Track of classes. Each individual class also includes post assessment questions.