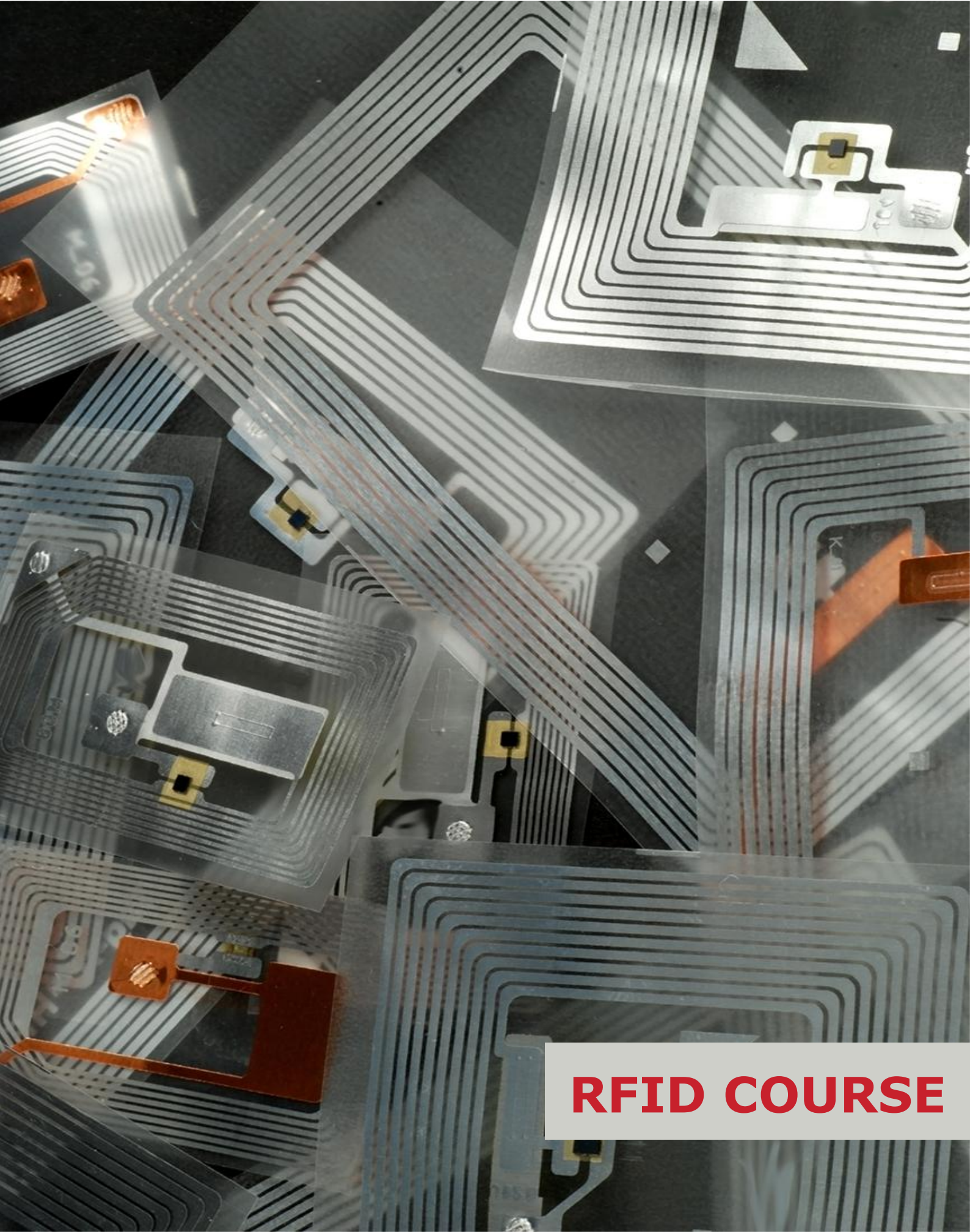


**abhisam**

**Discover the power of e-learning!**

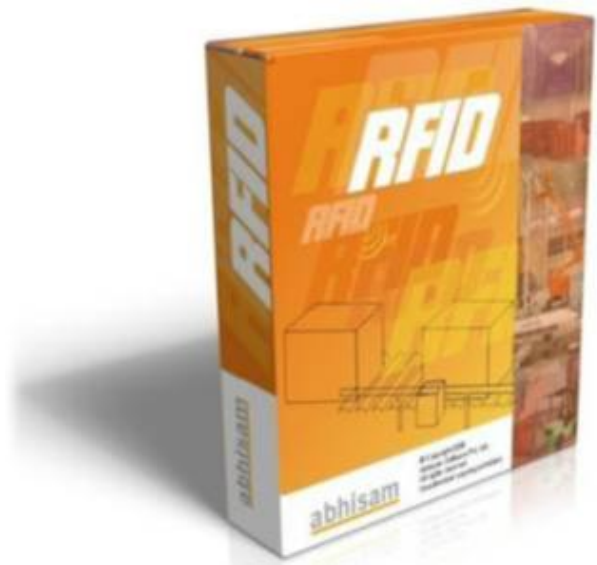


**RFID COURSE**

***If you are interested in **Radio Frequency Identification** technology, then this is the best investment that you can make today!***

Here's a training course on RFID technology with **CERTIFICATION !** Additionally, this course is :

- **Comprehensive**  
*covers all aspects of RFID*
- **Cost Effective**  
*costs a fraction of what it would take to enroll in a classroom course or seminar*
- **Easy to understand**  
*Full of rich graphics and animations, unlike those boring books*
- **Stays on your computer**  
*No need to get refresher training. The course resides on your computer. (An online version is also available).*



## Introduction

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Radio Frequency Identification Technology (RFID in short) is the hottest new technology today, with applications ranging from car parking systems to hospitals and supply chain management. Mandates by some large retailers like Wal-Mart and other big and influential organizations like the US DoD have driven the rapid adoption of this technology, by a variety of suppliers. It is estimated that, there are today now about 3 billion RFID tags already produced this year. The number is going to go up exponentially as the technology finds wide adoption in many many places all over the world.

## The Course

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A cursory search on the internet will reveal that most courses on RFID technology are either by vendors (or by their agents, which is the same), are classroom based or web based. The courses are by themselves divided into several different types, with no course big enough to give an overall picture, without being too complicated. To bridge this gap, Abhisam has come out with a **Comprehensive RFID course**, that aims to cover the entire gamut of the technology, right from Basic concepts to Security and Privacy issues related to RFID.





The course covers six areas

- a) Basic Concepts
- b) RFID Physics
- c) Practical RFID systems
- d) Middleware and standards
- e) RFID applications
- f) Security & Privacy issues

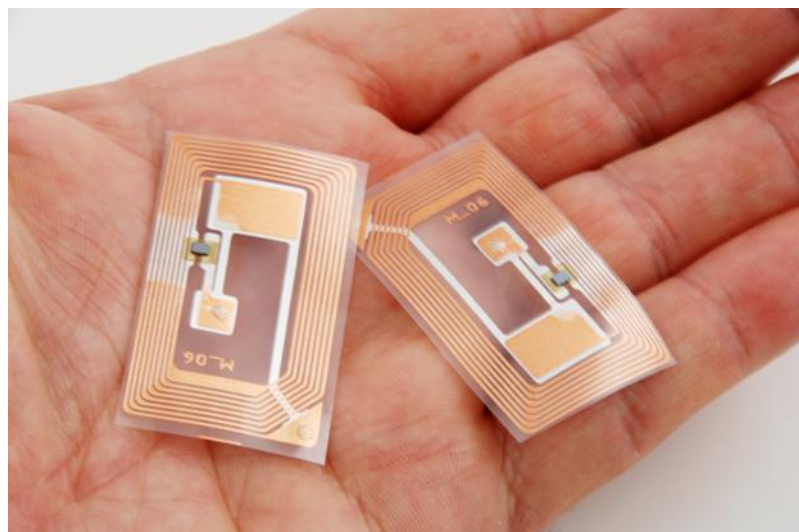
The entire course is designed in an easy to understand manner with text, graphics and animations and without any complicated stuff. It is said that **“A picture is worth a thousand words”**. This is true but we would like to take this concept further and state that **“a Flash animation that shows how things work is worth a thousand pictures”**. The course makes extensive use of Flash based animations, to explain how RFID and the technology which drives RFID, works.

**Additionally, since Abhisam is not an RFID vendor, we give you a very generic picture of the technology, without any bias towards any one vendor or standard.**

## TABLE OF CONTENTS

### BASIC CONCEPTS

- Introduction to RFID
- A modern history of RFID
- An Attractive technology
- Automatic Identification
- Bar Codes-1
- Bar Codes-2
- Bar Codes-3
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- Use of Automatic Identification
- What does a bar code reveal?
- Do bar codes follow any standards?
- How is a UPC bar Code made up?
- What is a tag?
- Active, Passive & Semi-Passive Tags
- More RFID tags
- What does an RFID reader read?
- How is an RFID tag different from a bar code?-1
- How is an RFID tag different from a bar code?-2
- How is an RFID tag different from a bar code?-3
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- Some Advantages of RFID over bar codes
- Bar Code reader for a moving conveyor
- RFID reader for a moving conveyor
- Anti Counterfeiting-1
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- Further advantages
- Disadvantages of RFID
- Summary of Basic Concepts





## RFID PHYSICS

- RFID Physics- Module Outline
- What are Waves?
- Development of a wave-1
- Development of a wave-2
- Parts of a wave
- Electricity & Magnetism
- A practical experiment
- Amperes law & Biot Savart's Law
- Maxwell's findings
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- The Electromagnetic Spectrum
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- A transformer
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- Antennas
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- Near field & Far field
- What is Resonance?
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- Modulation
- Frequency Modulation
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- Data transmission by radio



## RFID SYSTEMS

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- A practical RFID system
- RFID Tags
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- Smart label tags
- Plastic encased tags
- Tag Generations & Classes
- Classification of RFID systems
- Tag frequencies
- Countries & Tag frequencies
- Countries & Tag frequencies
- Selection of frequencies
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- RFID Antennas
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- Electronic Article Surveillance (EAS)
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- How do Near Field systems work?
- Data transfer in Near field systems
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- Singulation
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- Need for Middleware-1
- Need for Middleware-2
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- Functions of Middleware
- What is a Savant?
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- Middleware Architecture-2
- EPC global
- Electronic Product Code
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- Object Naming Service
- What is an EPC tag?
- How will the system work?
- Summary
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- The Air Interface Protocol
- Standards in RFID
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- Summary

## RFID APPLICATIONS

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- RFID applications
- Pharma Supply Chain-1
- Pharma Supply Chain-2
- Container tracking in a yard-1
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- Hospital patient identification & tracking-1
- Hospital patient identification & tracking-2
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- Airline baggage handling-2
- Airline baggage handling-3
- Summary of Applications

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- Security Issues in RFID-1
- Security Issues in RFID-2
- Security Issues in RFID-3
- Security Issues in RFID-4
- Eavesdropping
- Summary of RFID Security
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- Use of a blocker tag
- Blocker tag disadvantages
- Killing Tags
- Faraday Cage
- Tracking with RFID
- Summary of Privacy Issues
- Conclusion

**YOU HAVE SEEN HOW COMPREHENSIVE AND DETAILED THE COURSE IS.**

**Now visit the following link to find more info**

<http://www.abhisam.com/rfid.htm>



## Course Delivery Formats - CD, download and Online

For individual learners, a download link is provided with a license key that is good for use on one computer. A backup CD can be ordered at additional cost.

For companies, a tiered discount based pricing (based on number of licenses) is available.

This course can also be offered as an online version for companies that require online access to their learners. Full Reporting is available (user login dates/times, number of hours spent, scores on tests, etc). If necessary the course can also be customized to meet your organizational goals.

## Self Assessment Test

This self-assessment test helps learners evaluate their own knowledge about RFID.

The test consists of several questions.

## Online Certification Exam

After completing the RFID e-learning course, the learner can take the Abhisam Online Certification Exam. Every learner will have a unique Login and password. Questions are of various types, pulled in from a large database developed by Abhisam. On passing, the learner earns a Certificate of Competency in RFID. The Certificate bears the unique ID number of the learner and can be furnished as a proof of training and competency in RFID to current and prospective employers and/or clients.

## Sample Certificate



## RFID Demo

By now you have seen how detailed and comprehensive the course is. A brief demo of the RFID course can either be viewed online or downloaded from the Abhisam website. Please click <http://www.abhisam.com/freetrialcourses.htm> to do this.

### **Demo of the full version**

If you need a demo of the full version (say for presenting to your boss), we can arrange a live online demo, where we will step you through the entire course. This will require a high speed internet connection at your end.

### **AVAILABLE VERSIONS**

The RFID e-learning course is available in several versions as outlined below. The contents are the same in all these versions, only the delivery is different.

#### **Standard Version (Single PC license, Windows)**

This version allows the learner to download and install the course on any one PC/laptop running Windows OS (XP, Vista, 7 or 8). It also includes one seat for the online exam and certification. Internet access is required for license activation and periodic verification. The online exam must be taken within one year of purchase of the license.

#### **Professional Version (Dual PC license, Windows)**

This version allows the learner to download and install the course on any TWO PCs/laptops running Windows OS (XP, Vista, 7 or 8). It also includes one seat for the online exam and certification. Internet access is required for license activation and periodic verification. The online exam must be taken within one year of purchase of the license.

#### **Online Version (Windows, Mac or tablets)**

This version is for those users who do not wish to install the course on their PCs/laptops/Macs. Access is online through our web based Learning Management System, using a standard browser such as Internet Explorer or Mozilla Firefox. The browser must allow Flash content to display animations. Access is also possible via tablets (however Flash has to be enabled on the tablet). Access is for a period of ONE WEEK. This version includes one seat to take the online exam and certification.

#### **Enterprise Version (Cloud based)**

This version is for enterprises who wish to train their employees in RFID. Every learner gets access to the online version of RFID on our Learning Management System via a standard browser such as Internet Explorer or Mozilla Firefox. Access is also possible via tablets (however Flash has to be enabled on the tablet). The Enterprise version is available for groups of 10 or more learners. Access is valid for a period of ONE YEAR and includes an exam seat and certification for every learner.

#### **SCORM version**

For enterprises that have their own SCORM compatible Learning Management Systems (LMS), we also have a SCORM version. This enables the RFID e-learning course to be run in their own LMS. Only a license file needs to be uploaded to the LMS. The course is streamed directly from our server to the client's LMS.

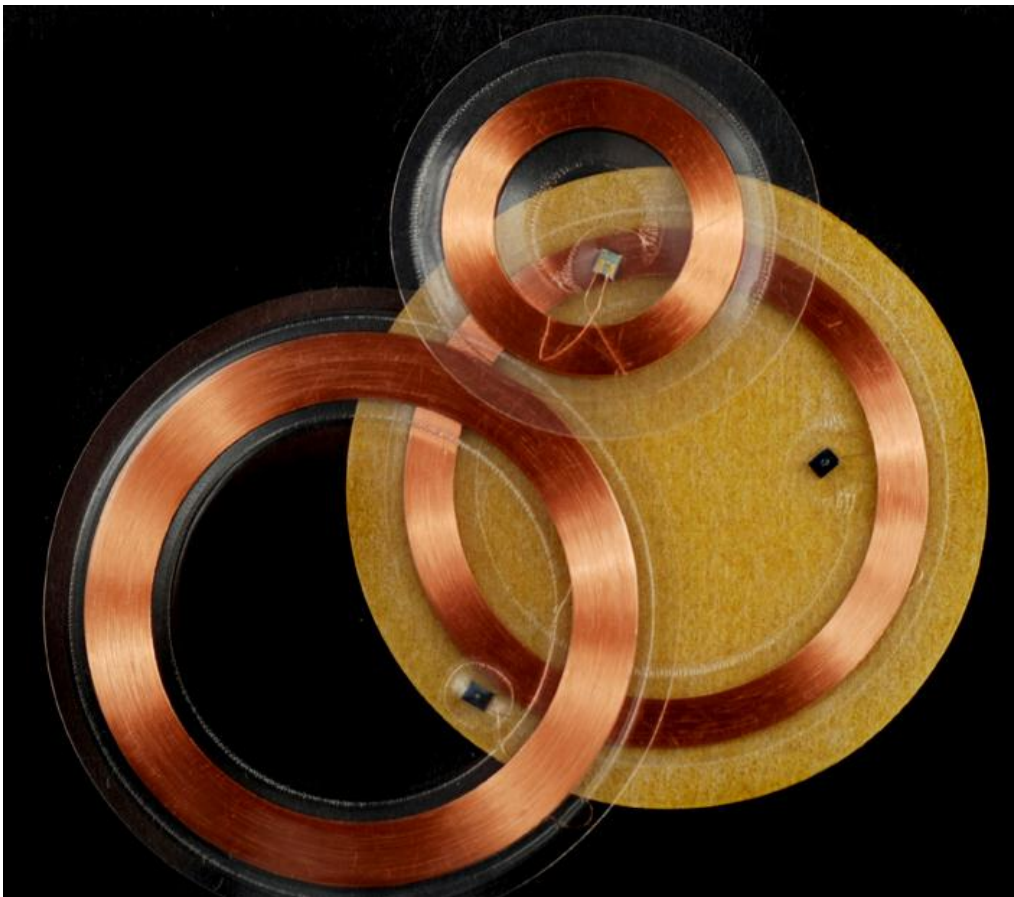


## Why you should get this course

As plants and facilities become more and more automated, with a lesser and lesser appetite for risk, it is only natural that the use of RFID to protect people, assets and the environment, will grow. It is extremely important that if you are involved in the specification, designing, usage or carrying out any other activity that concerns RFID, Emergency Shutdown Systems or similar safety related automation; you must understand these systems thoroughly. Additionally, you get an opportunity to take our online test and get certified as a competent person, who understands and can carry out work related to RFID. This is great to prove your worth to current and prospective employers or clients.

## Why you should get this course from Abhisam











Abhisam Software is an e-learning company actively involved in training and education of technical personnel like you. Abhisam Software is not a vendor of RFID, nor a system integrator, nor a consultant. **Therefore the course is entirely vendor neutral.** This is important to you, as some of the “free” course providers have their own axes to grind, which you should keep in mind. Our other courses on **Hazardous Area Instrumentation, RFID, Gas Monitors** and **HAZOP** have become very popular and we count many engineers and technicians working in many industries and companies, including several Fortune 500 companies), as well as universities and government organizations, as our customers and end users.





To the best of our knowledge there is no other course that compares to this presently, available in the market, for such a price.

## VERSIONS

Feature	Online	Standard	Professional	Cloud	SCORM
All Modules	✓	✓	✓	✓	✓
Self Assessment Test	✓	✓	✓	✓	✓
Online Exam & Certification	✓	✓	✓	✓	✓
Access	Online access only	Download to any one PC/laptop	Download to any TWO PCs/laptops	Online access only	Via your own LMS
Access Duration	One week	Three Years	Three Years	One Year	One Year
Operating Systems*	 or  or 			 or  or 	 or 
Devices*	PC/Laptop/Mac/Tablet	PC	PC	PC/Laptop/Mac/Tablet	PC/Laptop/Mac
Ideal for	Individuals	Individuals	Individuals	Organizations	Organizations

\* The Tablet Device should allow Flash (swf) files to run. The courses can be viewed on the iPad only with the Puffin browser (which allows Flash to run).

### How to order

This course can be ordered in a variety of ways, by online payment via credit or debit card, via wire transfer payments, physical checks, Paypal or several other options. Ask us for details.

Please send your requirements to

[sales@abhisam.com](mailto:sales@abhisam.com)

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