

abhisam

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SAFE CHEMICAL WAREHOUSING



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Introduction

For any company that deals with the manufacture, supply or consumption of chemicals, plastics, rubber, petroleum, pharmaceuticals and other similar "non-discrete" products, warehousing is very important. Warehouses act as buffers in the supply chain and are essential to the smooth functioning of activities such as manufacturing and distribution. Unlike other "discrete" products (think auto parts or books, for example), these chemical products could be hazardous, toxic, explosive or in other ways not benign. Hence the storage and handling of these has to be done with due care. This requires proper design of the warehouse facility, good operations management, proper maintenance and of course, planning for any disasters and emergencies that may occur over the lifetime of the warehouse.



Until now, there have been many training courses in warehouse safety, but these have been very generic, dealing with all kinds of warehouses including those that store mostly benign goods. These deal with mostly personnel safety related to forklift driving, falls and trips, avoiding personal injuries and so on. None of these deal with warehouses that are used for storing chemicals or other hazardous goods.

Thus there has not been any training course for personnel who are engaged in chemical warehousing specifically.

Hence Abhisam has come out with this e-learning course on Safe Chemical Warehousing that aims to train everybody who is involved in warehousing of chemicals or other hazardous material, in a very interesting and easy to understand manner.

When we say e-learning courses, we do not mean "videos of an instructor talking" or "documents that are in electronic format". Our e-learning courses are a blend of text, graphics, real life warehouse photos and situations and animations and simulations that explain key concepts, such as warehouse fires. It is commonly said that "A picture is worth a thousand words". We add to this popular saying another sentence "An animation is worth a thousand pictures". Animations, done in the right way, convey concepts in a way that no text, or instructor can.



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The course includes several animations including those related to warehouse fires, accidental damage of chemical drums by forklifts, proper way of unloading chemical drums and many more.

Other resources that are included are formats/templates and checklists, to carry out your own warehouse audits and inspections.

This course consist of the following modules :

1. Basic Concepts
2. Hazards
3. Warehouse Design & Product Storage
4. HSE Requirements
5. Operations & Management
6. Legal, Security and Emergency Measures
7. Self Assessment Test

After the learner completes the e-learning course, he/she can take the **Abhisam Online Certification Test**, on passing, they get a Certificate of Competency in Safe Chemical Warehousing.

The following is a TABLE of CONTENTS of the Safe Chemical Warehousing Course

Module 1 Basic Concepts

- Warehouses
- Accidents in warehouses
- Personal Injuries
- Industrial accidents
- Preventing Accidents
- Warehouse statistics
- GHS
- Potential Hazard Sources
- Good Management Practices
- Good Warehouse Design
- Importance of Product Storage
- Worker Safety
- Security Aspects





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Module 2 -Hazards

- What is a Hazard?
- Hazard Classes
- Hazardous Substance
- Physical Hazards-1
- Physical Hazards-2
- Physical Hazards-3
- Physical Hazards-4
- Physical Hazards-5
- Physical Hazards-6
- Health Hazards-1
- Health Hazards-2
- Health Hazards-3
- Health Hazards-4
- Environmental Hazard
- Purpose of the GHS
- GHS Pictograms-1
- GHS Pictograms-2
- MSDS and SDS
- SDS Contents-1
- SDS Contents-2
- SDS Contents-3
- SDS Contents-4
- SDS Contents-5
- GHS label Example
- GHS Label Example-2
- Safety signs-1
- Safety signs-2
- Safety signs-3
- Safety signs-4
- Safety signs-5

Module 3- Design and Product Storage

- Location selection-1
- Location selection-2
- Location selection-3
- Location selection-4
- Segregation and separation
- General recommendations-1
- General recommendations-2
- General recommendations-3
- General recommendations-4
- Building Design
- Walls
- Fire Walls-1
- Fire Walls-2
- Doors in Fire wall
- Roof
- Retention
- Ventilation
- Humidity & Temp Control
- Lighting
- Electricals
- Emergency Exits
- Firefighting-1
- Firefighting-2
- Lightning Protection
- Other facilities
- Loading Zones-1
- Loading Zones-2
- Unloading-1
- Unloading-2
- Unloading-3
- Outdoor Storage
- Storage plan
- Aisles
- Securing of Pallets
- Stock control system
- Product Storage
- Segregation
- Aisles and lanes
- ID Markings
- Block Storage
- Rack Storage-1
- Rack Storage-2



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Module 4- HSE Requirements

- General Safety-1
- General Safety-2
- Work Permits
- Medical Emergencies
- Medical Aids
- Inhalation/Ingestion
- Smoking
- PPE-1
- PPE-2
- Alarms
- Fire Fighting
- Fire Extinguishers-1
- Fire Extinguishers-2
- Wall hydrants
- Sprays
- Fire suppression
- Spill Control Systems-1
- Spill Control Systems-2
- Waste Disposal-1
- Waste Disposal-2

Module 5- Operations & Management

- Warehouse Management
- Organizational Procedures
- Training
- Warehouse Checklists
- Stock Control
- Material Storage
- Special requirements
- Markings
- Preventive Maintenance
- Loading/Unloading-1
- Loading/Unloading-2
- Loading/Unloading-3
- TREM Card
- Pre-Loading Inspection
- Securing Loads
- Load Segregation
- Drum Unloading
- Storage in trucks
- Other Activities-1
- Other Activities-2
- Non-routine activities
- Material Handling
- Good Housekeeping





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Module 6-Legal, Security and Emergency Requirements

- Legal Requirements
- Security Requirements-1
- Security Requirements-2
- Spillages
- Emergency Planning-1
- Emergency Planning-2
- On Site Emergency Plan
- Emergency Procedure
- Emergency Equipment
- Emergency Communication
- Emergency Training-1
- Emergency Training-2
- Sprinklers
- Fires-1
- Fires-2
- Cleanup after Emergency

Self Assessment Test

This self-assessment test helps learners evaluate their own knowledge about **Safe Chemical Warehousing**. The test consists of several questions.

Online Certification Exam

After completing the Safe Chemical Warehousing 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 Safe Chemical Warehousing . The Certificate bears the unique ID number of the learner and can be furnished as a proof of training and competency in Safe Chemical Warehousing to current and prospective employers and/or clients.





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Sample Certificate



Safe Chemical Warehousing Demo

By now you have seen how detailed and comprehensive the course is. A brief demo of the Safe Chemical Warehousing 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 management), 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 Safe Chemical Warehousing 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.



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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 Safe Chemical Warehousing. Every learner gets access to the online version of Safe Chemical Warehousing 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 Safe Chemical Warehousing 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

Employees and contractors of those companies that deal with the manufacture, storage, handling and distribution of hazardous chemicals and materials, need to thoroughly understand and be competent in managing warehousing of these materials safely. Even one unfortunate incident in a chemical warehouse can result in damages and liabilities that may run into hundreds of thousands of dollars, if not in millions. The aim of this training course is to impart knowledge and training to people who work in such facilities or those who are otherwise engaged in design, operation and maintenance of these facilities.

Why you should get this course from Abhisam











Almost all training courses out there that deal with Warehouse Safety deal mainly with occupational safety issues, personnel protection, safe forklift handling and other such topics that are relevant to ANY warehouse. However there is no course that deals specifically with issues that are related to chemical warehousing. An unfortunate accident in a chemical warehouse is not comparable to one that may take place in a warehouse that stores benign goods. It may have major implications. Abhisam has engaged the expertise of subject matter experts who have been experienced for decades in the design, operation and maintenance of these kind of chemical storage warehouses, to bring you this knowledge.



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VERSIONS

Abhisam's other e-learning courses on HAZOP, Safety Instrumented Systems, Hazardous Area Instrumentation and other topics have become very popular in the global chemical industry due to their ease of learning, use of animations & graphics, real life examples and cases along with concise explanatory text. This course is the latest in this series, meant for chemical/petrochemical industries.

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

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