

# JOB ROLE – ASSISTANT FASHION DESIGNER

Sector – Apparel, Made-Ups and Home Furnishing  
(Qualification Pack Code: AMH/Q 0801)  
Class XI



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# **Unit 4 : HEALTH AND SAFETY RELATED PRACTICES APPLICABLE AT WORKPLACE**

## **Session 2: Safe and Correct Storage of Materials**

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# Session Objectives

The students will be able to:

- Gain knowledge of safe and correct way to store materials.
- Explain about guidelines for storing materials including chemicals, usage of materials to minimize waste and waste management.

# WHAT IS RISK ASSEMENT?

The dangers, hazards or risks involved in making a product can be identified, described and listed.

This identification is known as risk assessment.

To prevent accidents, it is essential to know what might cause harm or injury to people or the environment.

# STORING MATERIAL SAFELY AND CORRECTLY

**Risk Assessment** – It is known as identifying, describing and listing of dangers, hazards products or risks involved in making a product.



# Precautions to avoid risk

- Carry out risk assessments.

- Display warning notices, safety rules and fire exit signs.

- Ensure that machinery, equipment, tools and materials are stored safely, have safety guards, are safe to use and are regularly tested for safety.

- Ensure that chemicals and auxiliaries stocked are recorded, stored and used safely, then recycled or disposed of safely.

- Check that the environment is safe with clean, tidy and clearly marked work areas, aisles, passages and ensure adequate ventilation.




•Install storage racks, shelves and containers.




•Savings in floor space results in easy accessibility to work items and tools, and improved inventory control.



•Provide a place for each tool and work item.



Identify tools that are most frequently used and place them at location where they can easily be reached without leaning.




•Provide a stable work surface where items can be firmly placed and easily accessible.





- Move materials and perform tasks at working heights.




- Regular checking/inspection of the light conditions, guards and other fittings of the fabric checking section.



- Report hazards and potential risks/ threats to supervisors or other authorized personnel.



Follow organization procedures for shutdown and evacuation when required.



- Environmental control measures such as clean regularly and properly, do not spread dust, make local ventilation cost-effective and replace dangerous substances with safer ones.

# Guidelines for safe storage of chemicals:

- All containers, bins and bottles of chemicals should be well labelled.
- Only authorized personnel should be allowed to handle the chemicals and they should also be aware about handling instructions.
- Chemical material should always be stored in designated areas.

- The storage location should be out of direct sunlight and heat.
- The chemical storage areas should also be away from high occupancy areas.
- Away from emergency exit and evacuation areas.
- The floor surfaces of the chemical storage areas should be made of a material which is impervious to the types of chemicals being stored therein.

- Generally, some type of ventilation equipment (e.g. a mechanical exhaust fan) is needed to provide adequate ventilation and avoid the accumulation of highly flammable or toxic atmospheres in the area in the event of a chemical leak or spill.
- All chemical storage areas should be secured (i.e. locked) when the factory is not in operation and only.
- Operations involving smoke and heat should not be performed near the chemical storage.

- Electrical supply, switches, wiring etc. should preferably be outside the chemical storage areas.
- Equipment such as generators, boilers, etc. should not share the same space as chemical storage.
- Provision of fire extinguisher should be there but these should also be kept outside the storage room and not inside.

- While storing chemicals their nature and compatibility issues should be kept in mind.
- Some type of adsorbent material should be available near the storage area to remove any liquid chemical from the floor or other surfaces after a spill or leak. Sand may be used for this purpose.
- In addition, it is important to ensure availability of equipment such as shovels, container and suitable PPE (protective gloves, eyewear, etc.

# USAGE OF MATERIALS TO MINIMIZE WASTE

Waste generated can be minimized by -

## Efficient Inventory Management

- Inventory should be managed efficiently with only required quantities.

## Reduce Packaging Materials

- Incorporation of reusable or recyclable packaging content .

## Reuse

- Reusable material should be returned.

## Establish a Preventative Maintenance Schedule

- Help clean and minimizing waste generation.

## Label and Organize

- Using the material properly and in an organized manner will eventually lead to minimized waste generation.

## Volume Reduction

- Volume reduction refers to the segregation techniques that remove the hazardous portion of waste from the non-hazardous portion.

# DISPOSAL OF WASTE

If the waste is not packaged and transported safely hazardous materials may leak or spill and cause harm to factories, industry workers, transportation workers, communities involved in these work and the environment.

This makes disposal of waste at designated location utmost important.

Waste management helps in reducing input and waste disposal costs and improves firm's environmental performance



# WAYS OF WASTE DISPOSAL

- The types and amounts of hazardous wastes such as expired dyes, auxiliaries should be identified and segregated and the waste disposal method for each category should be determined.
- Sorting the waste ensures that the recyclable items are getting to the right place. A worker should be assigned to monitor bins and eliminate, reduce or reuse waste.

- Hazardous and nonhazardous wastes should not be mixed.
- Industrial shredders can be used to reduce waste generated like damaged cloth etc. to a fraction of their original size. The shredded waste can be further utilized for various purposes like CSR ,filling for mattress and pillows etc.
- Bins/Containers containing waste should always be kept covered only except when workers are transferring hazardous waste into them.

# Summary

- In this session you have learnt about safe and correct way to store materials, guidelines for storing materials including chemicals, usage of materials to minimize waste and waste management.

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