

JOB ROLE – ASSISTANT BEAUTY THERAPIST

Sector – Beauty & Wellness
(Qualification Pack Code: BWS/Q 0101)



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UNIT 1: BEAUTY AND WELLNESS INDUSTRY AND BEAUTY THERAPY

Session 4: Health and Safety in the Work Area

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Session Objectives

The student will be able to :

- Identify hazards and evaluate risks at a workplace
- Adopt preventive measures to prevent fire, electrical and chemical hazards

Introduction

In a salon, there are various items that can lead to a fire. Every mishap can be dealt with efficiently and effectively, if a person acts promptly and knows what to do in case of a breakout. In order to be prepared to tackle any kind of eventuality, it is important to identify the risks and threats and take appropriate action to prevent them.

Types of Safety

Fire Safety

Electrical Safety

Chemical Safety

Fire Safety

In a salon, there are various items that can lead to a fire. Some of the items that can lead to a fire are as follows:

- Flammable and combustible materials
- Fuel-fired equipment
- Electrical and electronic equipment
- Arson

Fire Safety

Classification of Fires	
Class A	It is triggered by ordinary combustibles, like wood, paper, cloth, trash and plastics. This type of fire can be easily extinguished by water.
Class B	It is caused by flammable liquids, such as oils, gasoline, petroleum paint etc. It can be extinguished by cut the oxygen supply.
Class C	These fires involve energized electrical equipment, like motors, transformers. It can be extinguished by cutting the power supply.
Class D	It involves combustible metal fires. Potassium, sodium, aluminum, magnesium and titanium cause this type of fire. Dry powder, which works by absorbing the heat and smothering it well, can be used.
Class K	They are commonly kitchen fires. These can be put off by using Purple K, which is found in kitchen extinguishers.

Fire Safety – Types of Fire Extinguishers

Fire extinguishers are of the following types



Wet Chemical Extinguisher

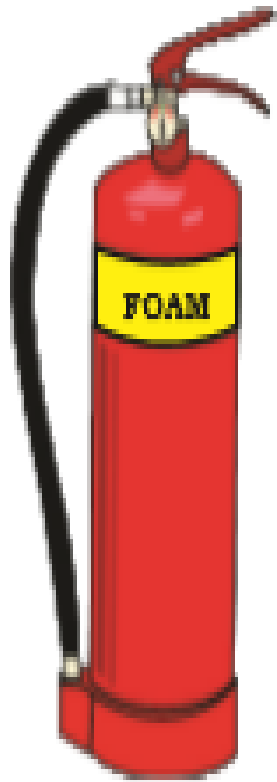
Use of chemical extinguisher:

To extinguish cooking fires and ordinary combustibles

- Cooking oil
- Paper
- Clothes
- Deep fat fire
- Wood

(a)

Fire Safety – Types of Fire Extinguishers



Foam Extinguisher

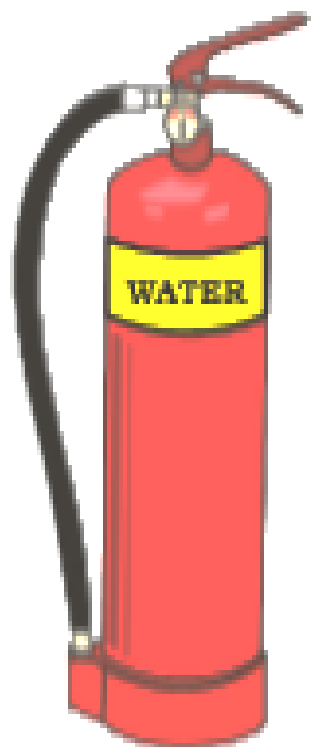
Use of foam extinguisher

To extinguish flammable liquid fires

- Oil-based paints
- Greases
- Hydrocarbon liquids

(b)

Fire Safety – Types of Fire Extinguishers



Water Extinguisher

Use of water extinguisher

To extinguish ordinary combustibles

- Paper
- Wood
- Clothes

(c)

Fire Safety – Types of Fire Extinguishers



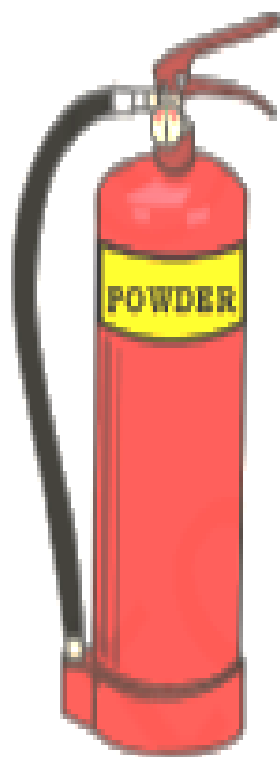
Halon Extinguisher

Use of halon extinguisher

To extinguish most types of fire, except those caused by combustible metals.

(d)

Fire Safety – Types of Fire Extinguishers



Powder Extinguisher

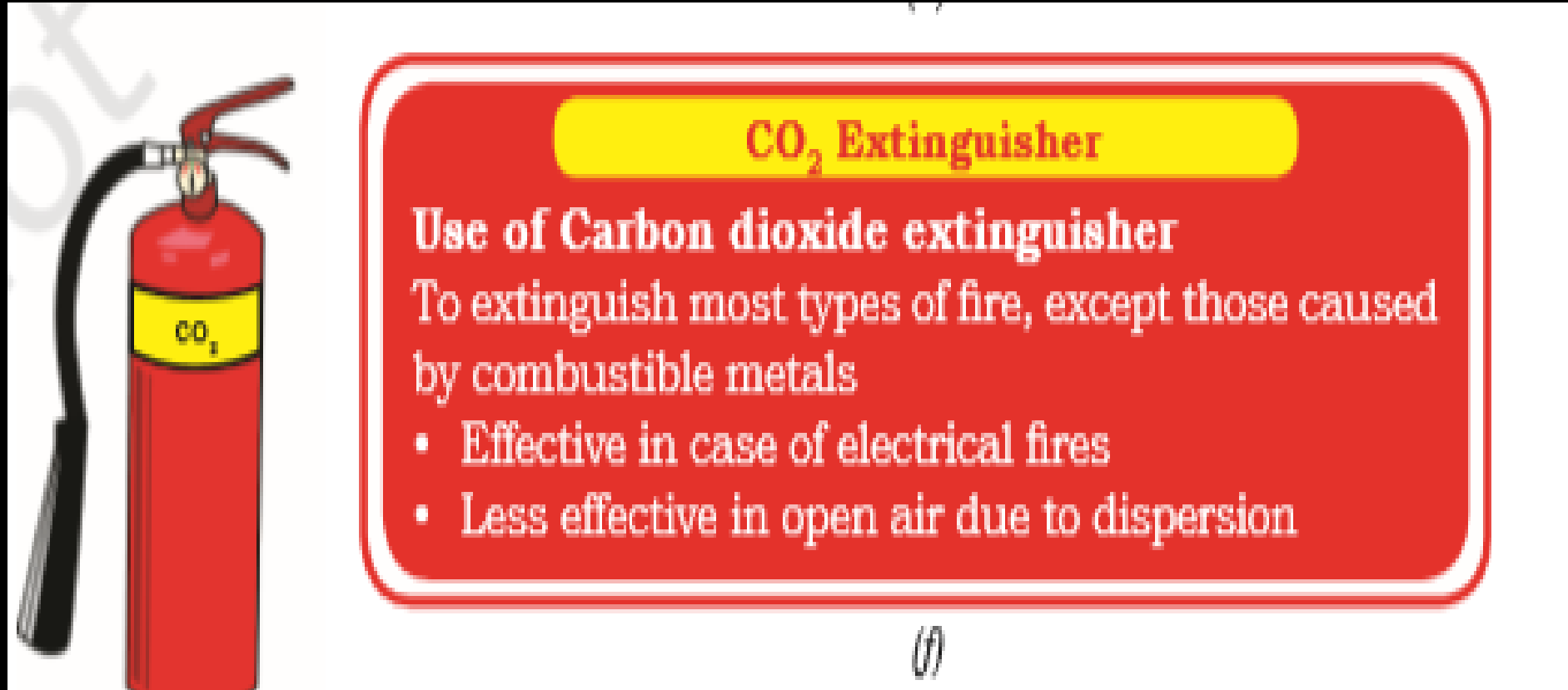
Use of powder extinguisher

To extinguish most types of fires

- Not preferred to be used in fighting delicate electronic appliances fires

(e)

Fire Safety – Types of Fire Extinguishers



Fire Safety - First Action

In case of a fire at a workplace

- Stay calm and do not panic.
- Alert the people around.
- Dial fire service helpline number 101 (in India) immediately.



Fire Safety - First Action

- Choose the type of extinguisher carefully, depending on the type of fire.
- If one catches fire, one must stop, drop, cover and roll. This is the first thing that needs to be done to douse the flames on clothes.
- If you are not able to douse the blaze, it is better to escape the building.
- Never use the lift during fire.

Electrical Safety

Electricity can be fatal at times. Shocks from faulty or damaged equipment can **cause severe injuries** and can even lead to permanent disability.



Electrical Safety

Major reasons for electrical hazards

- Exposed electrical parts, like cables, broken plugs and sockets, damaged appliances.
- Improper installation of insulated grounding system or earthing.
- Inadequate wiring or damaged wiring, like cracks in cables leading to damaged insulation.
- Wet areas, as water is a good conductor of electricity

Electrical Safety

Electrocution: When a person comes in contact with a voltage, high enough to cause a current flow, s/he experiences a shock, causing serious injury or even death. It is called electrocution.

Effects of electrocution

- Burns
- Neurological effects
- Fibrillation
- Damage to bones
- Damage to respiratory system

Chemical Safety

In the beauty industry, various products, containing chemicals, are used. Frequent contact with these products can lead to some adverse health effects. But these products cannot be avoided. So, it becomes imperative that while using them, utmost care and precautions are taken.

Chemical Safety

There are some chemicals that are harmful to health but it may be difficult to avoid these due to the lack of safer alternatives.

Examples:

Dibutyl Phthalate, Formaldehyde or Methylene Glycol, Toluene, Methyl Methacrylate, Cyclopentasiloxane or Cyclomethicone, Formaldehyde and Trichloroethylene etc.

Chemical Safety

The following table shows the harmful effects of the various chemicals generally used in salon

Chemical name	Found in products	Symptoms of exposure	Potential long-term effects
Dibutyl Phthalate	Nail polish	Nausea, dizziness, eye and skin irritation	Reproductive toxicity, birth defects
Formaldehyde or Methylene Glycol	Nail hardener, nail polish, keratin hair straighteners	Breathing problems, coughing, wheezing, skin rashes, eye, nose and throat irritation	Cancer, dermatitis
Toluene	Nail polish, nail glue, hair dye, wig, hairglue or hairpiece bonding glue	Dizziness, headache, skin rashes, eye, nose and throat irritation	Liver and kidney damage, birth defects, pregnancy loss

Chemical Safety

The following table shows the harmful effects of the various chemicals generally used in salon

Chemical name	Found in products	Symptoms of exposure	Potential long-term effects
Methyl Methacrylate (MMA)	Artificial nails	Breathing problems, chest pain, eye, nose and throat irritation, headache and nausea	Loss of smell, reproductive toxicity, asthma
Cyclopentasiloxane or Cyclomethicone	Flat iron sprays, thermal protection sprays	Under the high heat of a flat iron, cyclopentasiloxane creates formaldehyde	
Formaldehyde	Nail polish, body wash, shampoos, conditioners, cleansers, eye shadows, etc.	Leads to breathing problems, coughing, wheezing, skin rashes, eye, nose and throat irritation	Cancer, dermatitis

Chemical Safety

The following table shows the harmful effects of the various chemicals generally used in salon

Chemical name	Found in products	Symptoms of exposure	Potential long-term effects
Styrene	Hair extension glue, lace wig glue	Vision problem, trouble in concentrating, tiredness	Cancer
Trichlorethylene	Hair extension glue, lace wig glue	Dizziness, headache, confusion, nausea, eye and skin irritation	Liver and kidney damage, dermatitis, double vision
1,4 Dioxane	Hair extension glue, lace wig glue	Eye and nose irritation	Cancer, liver and kidney damage
2-butoxyethanol or Ethylene Glycol Monobutyl Ether	Disinfectants, cleaners	Headache, eye and nose irritation	Reproductive toxicity
Quaternary Ammonium compounds or Dimethyl Benzyl Ammonium Chloride	Disinfectants and cleaners	Skin, eye and nose irritation	Asthma

Chemical Safety

The following table shows the harmful effects of the various chemicals generally used in salon

Chemical name	Found in products	Symptoms of exposure	Potential long-term effects
P-phenylenediamine	Hair dye, henna tattoo	Skin irritation	Dermatitis
Glyceryl Thioglycolate	Permanent wave solution, 'acid perm'	Skin irritation	Dermatitis
Ammonium Persulfate	Hair bleach	Eye, skin and nose irritation, coughing, shortness of breath	Asthma, dermatitis
Ethyl Methacrylate	Artificial nails	Eye and skin irritation, rashes on eyelids, face or neck, difficulty in concentrating, coughing and shortness of breath	Asthma
Acetone	Nail polish remover, hairspray	Eye, skin and throat irritation, dizziness	Eye, skin and throat irritation, dizziness

Chemical Safety

The following table shows the harmful effects of the various chemicals generally used in salon

Chemical name	Found in products	Symptoms of exposure	Potential long-term effects
Acetonitrile	Nail glue remover	Eye, skin and throat irritation, reddening of the face, chest pain and nausea	Weakness, exhaustion
Butyl Acetate, Ethyl Acetate or Isopropyl Acetate	Nail polish, nail polish remover, wig glue/ hairpiece bonding glue	Eye, skin and throat irritation, headache, dizziness	Eye, skin and throat irritation, dermatitis
Methacrylic Acid	Nail primer, eyelash glue	Skin burns, eye, nose and throat irritation	Kidney damage, dermatitis, reproductive toxicity

Chemical Safety

Hazards due to chemicals can be prevented by adopting the following measures:

- Wear Personal Protective Equipment, such as apron, gloves, etc.
- Never use tabletops as storage areas for chemical. Store chemicals in storage area.
- All chemical bottles must be labeled with the name of the chemical.
- Close the chemical bottle after use.
- Keep the floor clean from chemicals.



Preventive Measures for Health and Safety Hazards

The following needs to be taken care of in a salon to prevent health and safety hazards

- Identifying hazards and evaluating risks at a workplace
- Understanding health and safety laws
- Sharing of information about workplace policies
- Maintaining hygiene at workplace

Summary

In this session, you have learnt about the causes of fire and action to be taken in case of occurrence of fire at workplace. You have also learnt about the electrical and chemical safety and the measures to be taken to reduce the health and hazard risks due to electricity and chemicals.

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