



<b>General Objectives:</b>	This course will focus on the need for trainees to have sound knowledge about chemical, biological and physical hazards and how to avoid injury. It is designed to ensure that the trainee is aware of his/ <sup>h</sup> er obligation in the workplace that includes correct reporting procedures and the proper use of safety equipment.
<b>Prerequisites</b>	Nil
<b>Specific Objectives:</b>	By the completion of this course the student will be able to: <ol style="list-style-type: none"> <li>1. Apply Basic First Aid. (Red Cron)</li> <li>2. Explain the importance of the HazCom (Hazard Commnnfcation Standard) requirement and MSDSs (Material Safety Data Sheets).</li> <li>3. Describe Am prevention and fire fighting techniques.</li> <li>4. Define safe work procedures around electrical hazards.</li> <li>5. Demonstrate the use and care of appropriate personal protective equipment.</li> </ol>
<b>Delivery</b>	Delivery methods must provide for the demonstration of competence in skills specified in all learning outcomes.
<b>Assessment</b>	More than one learning outcome may be assessed at once, by observing the learners ability to apply both specified skills and knowledge.
<b>Learning Outcome 1</b>	Basic First Aid  VSP 153b.1  Apply Basic First aid principles and practices (Red Cross Certification)

**Assessment Criteria**

153b.1.1 Demonstrate basic first aid principles in relation to:

- Control of bleeding (3 fractures)
- electric shock
- burns and scalds
- resuscitation techniques

In accordance with Red Cross society first aid techniques.

All work practices must ensure that safe practices are adopted.

**Conditions**

Working in groups given:

- Resources
- Verbal presentation to the group of learners
- Simulated workplace conditions

**Assessment Method**

Assessment may involve any of the following methods

- Oral questioning
- Written tests
- Computer managed testing
- Individual written assignments
- Active participation in group-activity

**Learning Outcome 2**

Control of Hazardous Substances.

VSP 153b.2

Explain the importance of the Hazard Communication requirement and Material Safety Data Sheets.

**Assessment Criteria**

VSP 153b.2.1 Define the three different forms of workplace hazardous Substances:

- Liquids
- Solids
- Gases

VSP 153b.2.2 Describe the three (3) principle routes by which dangerous chemicals enter the body:

- Breathing
- Swallowing
- Absorption

VSP 153b.2.3 List the major physical hazards of workplace Chemicals

VSP 153b.2.4 List and demonstrate the hierarchy of control strategies for dealing with hazardous substances.

VSP 153b.2.5 Evaluate the quality of different Material Safety Data Sheets.

VSP 153b.2.6 Complete as accident report form

All work practices must ensure that safe practices are adopted.

### **Conditions**

Working in groups given:

- Working under supervision, given access to resources including current Material Safety data Sheets.
- Workplace visits to study recent and emerging trends that are current to the Industry.

### **Assessment Methods**

Assessment may involve any of the following methods

- oral questioning
- Written tests
- Practical exercise demonstrating self protection strategies
- Individual written assignments
- Active participation in group activity

### **Learning Outcome 3**

Fire Safety

VSP-153b.3

Describe fire prevention and fire fighting techniques.

### **Assessment Criteria**

I53b.3.1 Explain how fires start.

153b.3.2 Explain the principles of fire prevention.

153b.3.3 List the four (4) classes of fires.

153b.3.4 Describe an emergency action plan for fires.

153b.3.5 Complete an, accident report form

All work practices must ensure that safe practices are adopted.

### **Conditions**

Working in groups given:

- Resources
- Verbal presentation to the group of learners
- Workplace visits to study recent and emerging trends that are current to the industry.

**Assessment Methods**

Assessment may involve any of the following methods

- Oral questioning
- Written tests
- Computer managed testing
- Individual written assignments
- Active participation in group activity

**Learning Outcome 4**

Electrical Safety

VSP-153b.4

Define safe work procedures around electrical hazards.

**Assessment Criteria**

- 153b.4.1 List five (5) types of electrical accidents :
- Burns.
  - Electric Shock
  - Explosions.
  - Falls caused by electric shock.
  - Fires

153b.4.2 Demonstrate basic electrical safety

153b.4.3 Explain the three steps if someone is shocked

All work practices must ensure that safe practices are adopted.

**Conditions**

Working in groups given:

- Resources
- Verbal presentation to the group of learners
- Workplace visits to study recent and emerging trends that are current to the industry.

**Assessment Methods**

Assessment may involve any of the following methods

- Oral questioning
- Written tests
- Computer managed testing

- Individual written assignments
- Active participation in group activity

## **Learning Outcome 5**

Personal Protective Equipment

VSP-153b.5

Demonstrate the use and care of appropriate personal protective equipment.

## **Assessment Criteria**

- 153b.5.1 List four things that must be done with Protective Equipment
- Regularly inspect it
  - Properly care for it.
  - Use it properly when needed.
  - Never alter or modify it in any way.

- 153b.5.2 Demonstrate the Safe use of the following
- Hard hat
  - Safety glasses
  - Safety shield v Cloves
  - Safety Shoes
  - Hearing protection
  - Respiratory Protection

All work practices must ensure that safe practices are adopted.

## **Conditions**

Working in groups given:

- Resources
- Verbal presentation to the group of learners
- Workplace visits to study recent and emerging trends that are current to the industry.

## **Assessment Methods**

Assessment may involve any of the following methods

- Oral questioning
- Written tests
- Computer managed testing
- Individual written assignments
- Active participation in group activity

## **SUGGESTED REFERENCE MATERIALS**

- Text: Accident Prevention Manual

National Association of Industrial and Technical Teacher Educators, American Technology Society 1975.

- NCCER Core Curriculum Trainee Guide, 2000  
Prentice-Hall, inc Upper Saddle River, New Jersey.
- Audio-Visual: Films:
- Emergency, No. 3533,14 min., color-sound
- Electric Safety from A to Zap, No.1771,11 min., color sound
- Don't Push Your Luck, No. 493,12 min., color-sound
- New Approach to Saw Guiding Safety with Visibility, No. 91,15 min., color-sound

## RESOURCES

- Workshop Facilities
- Tools of Trade
- Demonstration Units
- Video/TV Set
- Overhead Projector

## GRADES

Final grades for this course will be assessed based on meeting the course requirements at the following percentage rates:

- 90%-100%      A- Superior
- 80%-89%      B - Above Average
- 70%-79%      C - Average
- 60%-69%      D - Below Average
- 0-59%          F - Failure

## ATTENDANCE

The COM-FSM attendance policy will apply