

WELDING & CUTTING SYLLABUS

Description: Training will inform workers general safety and health hazards associated with welding or cutting. Course will provide safe work practices when working in areas where welding hazards are present and provide correct response to welding emergencies.

Course start time: 7:30am – 4:00pm CBT Lab hours

Course Length: Approximately 40-55 minutes including test. (Course is 31 minutes in length)

Presentation Method: CBT – Computer Based Training

Audience: Any employee who will be working on or around welding or cutting operations.

Subjects covered (topics):

Hazards	Chemical agents	Physical agents
Fumes	Metal fume fever	Eye injuries
Burns	Hearing loss	Muscle pain/power loss
Fire hazards	Oxy-fuel gas welding	Oxygen cylinder
Acetylene gas process	Gas cylinders	Valve protection cap
Storage	Opening/closing cylinders	Fuel gas piping systems
Regulator gauges	Hose color code	Connections
Leaks	Testing hose connections	Torches
Arc welding process	Arc cutting	Hazards of arc welding
Shielding	Welding booths	Helmets/hand shielding
Clothing	Dilution vents	Mechanical ventilation
Electrical hazards	Grounding	Electrodes
Machine hook up	Prohibited areas	Safety work procedures
Conclusion	Test	

WELDING & CUTTING SYLLABUS

Objectives: Upon completion of the course, trainees will have a general awareness knowledge of the following:

1. Safety and health hazards specific to gas and arc welding and cutting operations
2. Various controls to reduce safety and health hazards
3. How to store and use oxygen cylinders
4. How to use PPE
5. Restricted areas
6. Safe work practices with welding or cutting.

Test Information: Test consist of 15 questions and will require 80% or higher to pass the course.