Welding: Oxy-Fuel Gas Welding

Duration: 120 mins
Level: Intermediate
Pass mark: 80%

Course Description:
This course is designed to familiarize participants with the basic parts and safe operation of oxy-fuel gas welding rigs. After completing this course, participants should be able to describe common oxy-fuel gas welding applications and safety concerns associated with the use of oxy-fuel gas welding equipment. They should also be able to describe the parts of a typical oxy-fuel gas welding rig and explain how to assemble a rig, light the torch, and then disassemble the rig.

Learning Objectives:

• Describe common oxy-fuel gas welding applications
• Describe characteristics of oxygen and acetylene
• Describe safety concerns associated with oxy-fuel gas welding and identify precautions that can be taken
• Describe characteristics of oxygen and acetylene cylinders
• State precautions associated with properly storing and transporting oxygen and acetylene cylinders
• Describe oxygen and acetylene regulator types and gauges
• State some basic guidelines for handling regulators
• Describe oxygen and acetylene hoses
• State some basic guidelines for handling hoses
• Describe characteristics of welding and cutting torches and tips
• Describe tasks associated with assembling an oxy-fuel gas welding rig
• Describe three types of oxy-fuel flames
• Explain how to light a torch and adjust a flame
• Describe a procedure for shutting down and disassembling an oxy-fuel gas welding rig