Underwater Oxy-Arc Cutting

Underwater oxy-arc cutting is the process of cutting materials (generally metals) with a tool that combines oxygen and heat to melt the parent material.

This course explains the underwater oxy-arc cutting equipment, operations and hazards through an easy interactive elearning course.

Content

- Alternative cutting methods
- Training requirements
- Roles and responsibilities
- Risk considerations
- Oxy-arc cutting operations
- Electrical supply
- Oxygen supply
- Consumables
- IMCA D003 Guidelines for Oxy-Arc Cutting
- Oxy-arc Underwater Cutting Recommended Practice (IOGP Report 471)

Oxy-arc cutting is utilised to cut steel underwater such as:

- Removal of damaged caissons and tubulars.
- Removal of redundant steelwork from a worksite to provide access for installation activities
- Cutting of seized bolts subject to removal or replacement;
- Major abandonment operations
- Structure removal
- Cutting of vessels during salvage operations

Participants

The frequency of diver fatalities, injuries, incidents, and asset damage that occur when using oxy-arc cutting underwater is high within the global diving industry. It is recommended that all those who are involved in underwater oxy-arc cutting operations complete this course to have an understanding of the associated risks.

Participants may include the following:

- Client Representatives
- Offshore Managers
- Divers/Supervisors/Superintendents
- Field Engineers
- Project Engineers
- Offshore Representatives
- Project Managers
- Operations Managers
- Vessel Managers
- Decommissioning Engineers