Welding

UNDER WATER
Objectives…

- Identify the equipment for underwater welding.
- Describe the underwater welding process.
- List the reasons for welding underwater.
Why Would You Weld Under Water?

- It saves time.
- It can be cheaper
How Is It Done?

There are 3 main ways:

1. Preparing an enclosure filled with gas (helium) under pressure and have the welder fitted with protective equipment.

2. Wet underwater method, where the power of the arc generates a bubble of mixture of gases and the welding is done, more or less, normally, with special electrodes.

3. Build a pit, near where the welding will occur and take the water out.
BUT...

- The welder may need to learn how to dive first.
DISADVANTAGES

Electric Shock
Dangerous Gases
Underwater Hazards
A relatively new underwater welding process is “Friction Stud Welding”, which is used for military and commercial use.
QUESTIONS?

Information courtesy of TWI & other sources.

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Welding: Underwater