

Daniel Adamson Tugboat Project

As part of the site visit to the Daniel Adamson Tug-boat you need to take with you your safety glasses, your safety boots and a high-vis- jacket, the purpose of the site visit is to gather together information about the vessel. As a group you need to delegate areas to sub groups or individuals to find out about the steam raising system, what type of main engines, and propeller propulsion system.

The information gathered can then be written up in a report format and must include all of the following areas:-

- Title & date.
- Group number and names.
- Details of steam raising plant, its operating pressure, its fuel type and fuel feed mechanism, pressure protection, essential ancillary equipment required to run the boiler, maximum steam pressure, system test pressure, water level indicator, boiler connection to steam engine, condensed steam collection system, boiler feed water storage, boiler feed water injection into boiler.
- Main engine type and operation, operating speed range for both ahead and astern drive, the lubrication system and the drive shaft coupling arrangement.
- Propeller shaft bearings type and lubrication, shaft to hull sealing arrangement and propeller thrust to vessel arrangement to push the ship through the water.

The report is to include **meaningful photographs and sketches** of equipment and areas of interest along with relevant information associated with them.

Finally, if you are in any doubts about any of the requirements of this exercise please ask.