

# Liquid Cargo Survey (Ullage).

Today the entire world is experiencing an increase in quantum of various oil, liquid chemicals and petroleum products being traded across the continents through the product tankers and VLCC, ULCC.

These tankers carry huge amounts of cargo in their cargo tanks of various capacities, shape and dimensions. The measurement of the quantities of liquids transported by a tanker is a complex operation and is generally less accurate than the measurement of liquid quantities in land based tanks.

This measurement of liquids to determine its volume is done by a process called as ullaging. Prima facie Ullaging appears to be a technical and intimidating process; however it is not the case in reality.

You too will share the same opinion once you undergo the training on **Cargo Tank Gauging (Ullage)**.

The module covers following topics;

- ◆ **Introduction**
- ◆ **Principles of Ullaging**
- ◆ **Difference between Ullaging & Sounding**
- ◆ **Methods of Taking Ullage Readings**
- ◆ **Corrections & Interpolations**
- ◆ **OBQ/ ROB/ RBQ**
- ◆ **Wedge Formulae**
- ◆ **VEF**
- ◆ **Precautions**
- ◆ **Reports**