

## Liquid Cargo Handling Course

*Aim: The target of the course is to understand liquid cargo handling procedures and be aware of risks of critical stages during cargo transfer operation. The course participants will be aware of the practical aspects of planning such operations.*

### Timetable:

08:00-10:00	<b>Loading and Discharging Plans</b> <i>(Critical stages, ballasting and tank pressure monitoring, topping off and stripping of cargo tanks, stability, shear forces and bending moments, pumping limitations and ballasting sequences)</i>
10:00-10:15	<b>Coffeetime</b>
10:15-12:00	<b>Ship-Shore interface</b> <i>(Ship Shore Safety Checklist, Gangway safety, Vapour return procedures, shore stops including pigging operation and line blowing)</i>
12:00-12:30	<b>Lunchtime</b>
12:30-14:00	<b>Tank cleaning and tank pressure monitoring</b> <i>(Problems with tank vacuum and Pressure/Vacuum valves, examples of tank structural damages, Tank cleaning with fixed tank cleaning machines, Squeezing of Chemical tanks, Washwater Recycling, Effective Tank Cleaning, Manual tank cleaning operation, Problems with gas concentrations and results of tank cleaning)</i>
14:00-14:15	<b>Coffeetime</b>
14:15-16:00	<b>Sampling, Ullaging and Liquid Cargo claims</b> <i>(Safe sampling procedures, Safety precautions, Closed sampling and open sampling procedures, Calculation examples for quantity in air and vacuum, Volume claims and quality claims, Practical examples)</i>
16:00-16:30	<b>Q&amp;A and closing meeting</b>