

## Advanced Training for Senior Cadets Based on Cargo Handling Simulator

**Leader: Gdynia Maritime University**

**Partner: Istanbul Technical University**

Project intends to prepare a set (6-8) practical exercise on cargo handling simulator in connection with other elements of navigation's education like: passage planning, teamwork, electronic navigation, cooperation with port facilities and stability.

Apart of typical cargo calculations exercise in more complexly methods will follow in other disciplines of education.

As observed many students study different discipline separately without necessary correlation between them.

In proposed project group of experienced academic teachers and experienced practicers will try to establish multidiscipline exercises. The basic is cargo operations.



Both Gdynia Maritime University and Istanbul Technical University have installed model equipment Transas Cargo Simulator - modern tool for teaching.

IMO models courses including Model Course 2.06 "Cargo and Ballast handling Simulator" are very helpful in organising by teaching staff typical training courses.

Modern instructor should present especially to cadets (non experienced officers) whole spectrum of problems which can arise before and after planning of cargo operations.

Young students should understand that knowledge taken from different topics and discipline during period of education is strictly connected each other. In final stage of education navigators should have a chance to pass exercise more complicated and inter disciplined exercises.

Complex of problems content<; topics of preparation to voyage and passage planning knowledge of particular terminals regulations and safety rules in cooperation with shore side, safety aspects of manoeuvring and approaching terminals, berth, loading buoys etc.

Understanding of contents of procedures and check list, communications with shore side etc. etc. Only then, cadets can pass main problems written in model course like for example: tank arrangement, pipeline arrangements all operational problems etc.

A list of more problems arise after completing of loading. Calculations of stability, trim in port of destination, analyse of fuel, water consumption navigational problem in full boarding conditions (limiting water, squad, restricted areas, colreg rules, system of reporting, cargo, safety and other documents etc. Group of teachers should prepare detailed algorithm of complex exercises.

Final report of preparing exercises should be presented to Chair of IAMU / Nippon Foundation / Secretary of IAMU after completing of project that's means on March 2004. Materials-instructors booklet and set of exercises - will be free distributed to all IAMU Members interested in above problem.

Results of project will be presented on V General Assembly in 2004 and will be published in IAMU News and/ or IAMU Journal.

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