



STAR Center

Simulation, Training, Assessment & Research

2 West Dixie Highway • Dania Beach, Florida 33004
TEL 954-921-7254 • 800-445-4522 • FAX 954-920-4268 • 800-431-8815
www.star-center.com • email@star-center.com



ISO 9001
Certificate No. 38806

To: STCW Upgrade Stability Students

From: Deck Department

Re: **STCW Upgrade Stability Course**

Welcome to the Deck Upgrade Stability Management Level Assessments Course. If you are already a Chief Mate, then this is **NOT** the class for you. Due to the demand and nature of this course, enrollment is limited to persons who require these assessments for regulatory purposes.

Please note that you must meet the following requirements before registering for this course:

- hold an STCW-95 certification as an “Officer in Charge of a Navigational Watch”
- hold a valid Unlimited Second Mate’s license
- be in good physical health
- must speak and understand English
- be at least 21 years of age

It is recommended that chapters 1-9 and chapters 11 and 12 be reviewed in the textbook, *Stability and Trim for the Ship’s Officer* by John La Dage, prior to coming to the class. Any questions regarding the Stability class can be directed to telephone number 1-800-942-3220, extension 7170.

Subjects covered will include:

- What is Stability?
- calculation of KG
- determining KM
- calculating GM
- The Inclining Experiment
- stability at large angles
- free surface
- trim
- longitudinal hull strength: shear and bending moments
- the ship in the damaged condition



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- practical stability and trim considerations

All exercises, homework and the written assessment will be required to be solved manually, using a hand-held, non-programmable calculator, except for specific exercises done on a stability software program, and a practical assessment using this software.

Sincerely,

Deck Department