

## Maritime Education most profitable market

HMC's Maritime Education (ME) was founded a few years ago. Back then most clients were located in Europe, and mostly in Germany. These days our trainers travel all over between Holland and Asia to provide courses in for example Singapore and Kuala Lumpur.

One of the biggest trends in the maritime industry over the past few years has been the growing demand for maritime education in Asia. This trend does not appear to be about to change anytime soon. HMC's Maritime Education is growing more than ever with new courses and seminars. To have a direct contact in the region, HMC established an agency in Japan where you can gather more information about our different courses. HMC gained a lot of experience in maritime engineering and transport engineering. From this experience HMC developed maritime applications. As an example you can look at HMC's loading instrument CPC, EcoTrim or our solutions for shipmanagement. HMC's aim is to train your employees on a high-level to

real maritime specialists. Technical education is very important at the moment. In this manner, HMC contributes to a more safe maritime industry in the world.



## A quick chat with ME's business unit manager, Mr. Michel

Mr. Michel explains that the first part of 2014 was very fruitful and that his business unit has grown, in this short period, even further than the (full) previous year. This is due "to the name which we build in the past two years."

"Our ME is a great success. It went like clockwork from start" says Mr. Michel. "The past two years have been hard work for our business unit ME. We really tried to build a name and had to contact a lot of different facilitators to get our courses the attention they needed. It is great to see that our hard work is paid off now. Nowadays more and more facilitators are known with our educational program and we get more

inquiries each month. There is often no connection between what the maritime industry needs and what educational institutes are providing. HMC took advantage of this shortage and developed specific maritime courses on all aspects of maritime education and engineering." If you would like to receive more information about our (custom made) courses, please contact Mr. Michel or check our [website](http://www.hmc.nl).

*"HMC's Maritime Education expands through Asia"*

*"HMC's Maritime Education: It went like clock work from start"*



## During the OMAE 2014, HMC provided a short course about Transport Engineering and Front End Engineering Design (FEED)

On June 8th 2014, HMC successfully presented a paper about Proposed rules for fatigue in offshore Transport Engineering.

The presented paper described the history of special transport and the impact on the development of rules. Therefore it keeps in pace with the technical developments to assure safe transport. Interviews with experts in the industry confirm the need for common rules for fatigue assessment in transport. Various damages in transports of JU Rigs, modules and topsides were investigated and fatigue appeared to be the reason of the damages. This demanded the need to develop a standard tool for transport engineering, defined by the oil majors, transport contractors and marine warranty surveyors. Oil companies require that the fatigue damage during transports is less than 20% of the total design fatigue life and in concert with oil companies HMC developed a methodology to assess the fatigue in a realistic way. HMC measured that fatigue determined based on the design wave used for design and the maximum values of each of the RAO's in the 6 degrees of freedom acting at the same time result in values that

are not realistic. HMC's existing fatigue-design methods can estimate fatigue lifetime. A 4D-Fatigue research program is defined to develop a better estimate fatigue lifetime of welded details subjected to multi-axial, non-proportional and variable-amplitude stresses. Sensitive, heavy and fatigue is a major issue in heavy transport and needs to be addressed in transport engineering. In HMC's presentation, we came to the following practice for fatigue assessment, at first perform you have to perform global analyses to assess the impact of fatigue. The importance is emphasized that design engineers must take into account forces on structures induced by ocean transport. HMC advises to develop common rules for fatigue damage calculations and monitoring. For a copy of HMC's paper or more information please contact our office at [info@hmc.nl](mailto:info@hmc.nl)

*"Realistic fatigue assessment during marine transportations"*



## HMC will provide a new course Marine Warranty Surveyor

HMC has just signed a contract with a new partner in Asia, YF ASIA Pte Ltd. The company contacted HMC when in search for a course to provide in Marine Warranty Surveying.

YF Asia, a company incorporated in the Republic of Singapore, will facilitate HMC's new course about warranty surveying. As a Marine Warranty Surveyor, it is necessary to impose certain conditions by way of a warranty to control the extend and nature of the risk they are prepared to accept. A warranty is an important condition of the marine insurance contract because it is a condition which must be exactly complied with by the assured, whether it be material to the risk or not. HMC's ME bundles all our knowledge and increases efficiency of all our educational projects. In case you want to deepen the knowledge of your engineers on in-depth transport engineering topics, or you want to familiarize non-engineering employees

with an introduction to ship construction and stability. Employees of HMC already functioned as experts on specific areas of transport engineering, such as loading operations on board of semi-submersible ships and ship stability calculations. They also gave courses on these topics on universities and private educational institutes nationally and internationally. HMC is happy to share its knowledge and works with a highly practical insight. For more Information on this new course and our other courses you can contact us at [info@hmc.nl](mailto:info@hmc.nl)

*"HMC introduces new course Marine Warranty Surveyor"*



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