

# MAN Diesel, Anglo Eastern start India's first Electronically Controlled Engine training course

**A**nglo Eastern Maritime Training Centre (AEMTC), a pioneer in bringing the latest training technology to India, believe that operational training is best done on Full-Mission Simulators which bring you as close to realism as practical.

AEMTC, the authorized training centre in India for MAN Diesel marine engines, is fitted with the full mission engine simulator modelled on MAN B&W 6S50MC, the pneumatic control system for MC Engines and the MAN B&W Holby 6L 28/32 diesel engine. AEMTC, in close cooperation with MAN Diesel, Copenhagen has acquired a MAN Diesel ME-type Simulator. Now AEMTC has installed South East Asia's first MAN Diesel Marine Electronic Engine Simulator. It is one of the three installed in the world so far and will add one more feather to their latest training equipments fitted at their state-of-the-art training centre. This is to train crews specifically in the management and operation of its ME range of electronically-controlled camless engines.



The first 4-day course for ME engine was launched by MAN B&W in India at the Anglo Eastern Maritime Training Centre for their customers in this region, on December 10, 2007.

The course covers both the mechanical and electronic systems that make up the engine, as well as theoretical principles on how they work together. Besides teaching the students how to operate the

electronically-controlled engines, there is a strong focus on how to optimize their performance for different prevailing conditions. Educating crew to have better control of the engine parameters in order to meet local environmental regulations are of great relevance in today's world. Full competence in the use of automated systems involves both knowledge and skill and hence there is a requirement for



both understanding the system as well as developing the skill to deal with it.

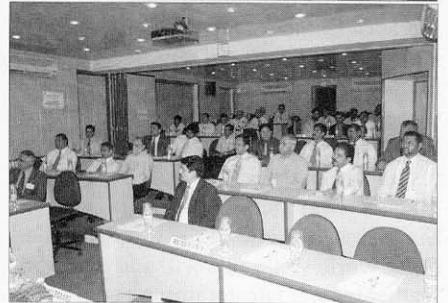
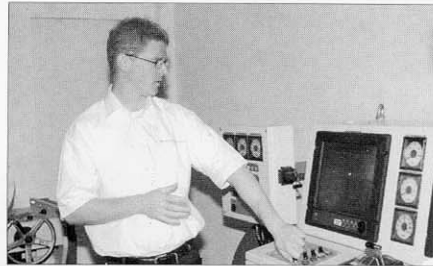
AEMTC is of the view that the most effective way of imparting knowledge and enhancing skills need to be addressed in the development of the training curriculum. For example, it may well be that knowledge is learnt in a classroom setting, while some skills will require the full environmental context that a simulator provides. The core function of a simulator is to recreate a physically realistic environment in which these exercises occur.

AEMTC claims that the ME Simulator provides a high level of fidelity replicating the effects of operational problems that cannot be recreated onboard an actual vessel for practical or safety reasons. In this way, the ME Simulator provides an effective platform to hone and test a student's ability to take corrective actions and acquire troubleshooting skills.

The knowledge needed by a marine engineer has to match the complexity of the engines and other equipment that they operate. To ensure that this remains the case, AEMTC has been in the forefront of establishing training programmes that are regularly modified and updated. In recent years, there has been a significant shift away from a component-based approach to a systems based one.

Welcoming the guests who had come to grace the start of the joint MAN Diesel and Anglo Eastern course on Electronically Controlled Engine Course in India, Capt. K.N. Deboo, Director and Principal of the Institute, mentioned the importance in using the

simulators for the operational training and hardware equipments for practical training. Engineers are on a fast track in their career path and the time between overhauls for engine is increased drastically, the engineers experience



in higher ranks is not enough to make them confident. AEMTC has geared up for carrying out training on latest equipments at our training centre in all the relevant fields including cargo operations, navigational skills and maintenance and operation of marine machinery and equipments.

Mr. Francis Akkara, the head of engineering studies, and General Manger, spoke about the training arrangement with MAN Diesel and Anglo Eastern Maritime training Centre. The arrangement for training marine engineers of Indian ship owning and ship management companies made easier as this training platform is being used by all the

companies. Anglo Eastern Maritime training Centre has signed the MOU in the year 2003 to carry out the training activities of MAN B&W in India. They started the training with MC engine courses. These courses are planned twice a year and the specialized faculty from Diesel Academy from Copenhagen conducts the course at Anglo Eastern Maritime Training Centre.

Mr. Francis Akkara mentioned the need of having high value courses conducted in India as most of the technologically advanced fleet of vessels is managed by Marine engineers and Officers from India. AEMTC strongly believed that well trained sea going personnel are the key to the success of safe ship operation. It is also very necessary to train them with the appropriate equipment so that they would operate out at sea. Keeping this mind, Anglo Eastern has invested in training the Indian seafarers by using latest hardware combined with excellent soft skills, he added.



Mr. Akkara said, "The ME Engine course will be conducted at Anglo Eastern Maritime Training centre regularly in the coming years. Since there is a high demand in well trained engineers in the field of electronically controlled engines, we are trying to have at least 5 such training courses in a year at AEMTC Mumbai."

The chief guest Mr. P. K. Banerjee Country Manager Lloyd's Register who is in Charge of India and Sri Lanka, spoke about the importance of new technology in the engine development field. The new electronically controlled engines are meeting high standards of pollution prevention, which includes low levels of NOx, CO and CO2. Mr. Banerjee congratulated both MAN and B&W Diesel and Anglo Eastern Maritime Training Centre for coming together to start an initiative of training in India. He added that the Indian maritime fraternity would certainly benefit from this joint venture.

Mr. P.K. Banerjee inaugurated the first Course in India by untying the ribbon on the course hand out.

Capt. S.S.Jairam, Chairman of MASSA was the guest of honour. He congratulated MAN B&W for achieving a new mile stone in their engine development field. He said, "In the ship owner's view, any engine which has a high degree of reliability and operational economy is certainly the first choice. The reliability coupled with very low pollution level is always the right choice of any ship owning company having commitment towards environmental protection."

Later he inaugurated the first electronic engine simulator installed in the Asia Pacific region at the Anglo Eastern Maritime Training Centre.

Mr. Tom Ballegaard, the Chief trainer from MAN B&W, explained the main features of the Electronic engine and cleared many doubts and questions raised by the distinguished guests.

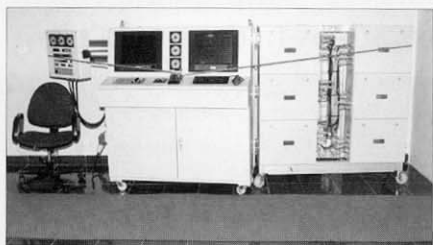
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Some of the Feedback Received from the participants who underwent the 1st



Marine Electronic Engine course conducted by MAN B&W at AEMTC.

1. It was a highly informative course regarding the new concept of cam less engines.
2. Very good.
3. Totally a new concept about marine internal combustion engine which has flexibility in operation and any day better than camshaft engines.
4. Yes, we have learnt how to deal with troubleshooting about the changes that MAN Diesel has brought in this engine.
5. Highly beneficial familiarisation of basic operation and trouble shooting experience gained in this course, gives the confidence initially required onboard
6. Simulated training and excellent



presentation of course material.

7. Lot of information and knowledge about Electronic main engine.
8. Everything was great since it is a new concept which I was not having much knowledge about.
9. From operation to maintenance, this course is a must before handling ME engines.
10. This course should be undergone by all senior engineers serving on vessels with ME type engines.