

# Training package increases crew competence levels

CASE STUDY: NIGERIA LNG LTD

“THE CUSTOMER’S PERSONNEL APPLAUDED THE QUALITY AND EXECUTION OF THE TRAINING.”



Wärtsilä Land and Sea Academy (WLSA) delivered a 10-day training package (including pre- and post-competence assessments) for 124 Nigeria LNG Limited crew members. The training resulted in competence improvement regarding knowledge of operating Wärtsilä 50DF engines in diesel electric mode.

“The successful training provided advanced knowledge and skills for dealing with emergencies, unplanned maintenance and resolving technical issues on board,” says Mr. Seun Egunjobi, Account Manager at Wärtsilä.

Nigeria LNG Limited (NLNG) was founded in 1989 to harness Nigeria’s vast natural gas resources and produce Liquefied Natural Gas (LNG) and Natural Gas Liquids (NGLs) for export. The company is owned by the Federal Government of Nigeria, represented by the Nigerian National Petroleum Corporation (49%); Shell (25.6%); Total LNG Nigeria Ltd (15%) and Eni (10.4%).

With six LNG processing trains currently operational, the company’s plant has a capacity of 22 Million Tonnes Per Annum (MTPA) of LNG, and 5 MTPA of NGLs (LPG and Condensate) from 3.5 Billion (standard) cubic feet per day (Bcf/d) of natural gas intake.

Bonny Gas Transport (BGT) Limited and NLNG Ship Management Limited (NSML) are wholly-owned subsidiaries

## CHALLENGE

- Ensuring that the customer’s engineers are fully skilled to operate, troubleshoot and maintain the new dual-fuel engine technology and control systems
- Finding suitable openings in the personnel’s heavily-booked schedules for the training sessions

## SOLUTION

- Delivery of eight 10-day training sessions, including W50DF Operation Advanced and Practical courses with UNIC C3.

## BENEFITS

- Operation and maintenance of new equipment safely, ecologically and economically
- A significant competence improvement
- Increased knowledge and confidence level of the participants.

of NLNG. Nigeria LNG Limited charters 24 LNG vessels dedicated to its service. Thirteen of these are owned by BGT.

## **FROM 36 CREW MEMBERS TO 124**

Shipping is BGT's core activity. Recently, the company ordered six vessels equipped with Wärtsilä 50DF diesel electric engines. The last of the new vessels was introduced to the fleet in June 2016.

With the latest dual-fuel engine technology and control systems included in the new vessels, it became a priority to ensure that the engineers became fully skilled at operating, troubleshooting and maintaining the vessels. WLSA in Korea closely cooperated with the customer by tailoring the training content to include more trouble shooting.

As part of the Customer's Service and Maintenance Agreement, WLSA delivered the first tailored training package for 36 crew members, which included W50DF Operation Advanced and Practical courses with UNIC C3, as well as pre- and post-competence assessments.

**"COULD HAVE BEEN EVEN MORE HANDS-ON TRAINING."**

The good results of the training (a 40-60% competence improvement) led to further training sessions. In the end, a total of 124 individuals were trained at WLSA's Korea Training Centre in Busan. "Eight 10-day training sessions for superintendents and ship crew were delivered according to

plan by Wärtsilä Land & Sea Academy," says Mr. Seun Egunjobi.

## **QUALITY DELIVERY**

According to Mr. Egunjobi, the training sessions ran smoothly, and the only challenges were with harmonising the crew members' fully-booked schedules to the training. He pointed out that it was vital for NLNG that the trainings were a success.

**"COURSE WAS VERY WELL PRESENTED, AND THE SIMULATORS USED WERE VERY HELPFUL."**

He also added that the customer was impressed with the amazing work and display of knowledge and professionalism shown by WLSA. The instructors knew the subjects, were familiar with the course plan and above all, well organised and prepared. The trainers used good judgment in delivering the courses to fit most participants. They created an atmosphere that encouraged involvement and learning.

Mr. Egunjobi noted that NLNG's new vessels are currently within the warranty period and Wärtsilä continues to deliver its after-sales support services under the terms of the warranty. WLSA's training package provided advanced knowledge and skills for dealing with, for example, emergencies, unplanned maintenance and resolving technical issues on board without the help of Wärtsilä service engineers. He adds that the set training goals were met and had a huge impact on the confidence level of the participants.

The customer's personnel applauded the quality and execution of the training. It was highly beneficial in terms of enhancing everyone's respective knowledge and skills, he states.

## **SUPPORTING COMPANY GOALS**

The NLNG business requires a dedicated fleet of vessels to deliver the gas reliably and efficiently to the company's long-term buyers. This training directly supported the company's business goals. For instance, the reliability of this dedicated fleet, when it comes to maximising uptime, depends to a certain extent on the quality of the onboard maintenance culture. This culture can only be achieved by personnel equipped with the right skills and knowledge of the vessel's engines and systems.

This training solution made it possible to operate and maintain the vessel's new equipment safely, ecologically and economically.

As Wärtsilä's training package was tailored to the specific needs of NLNG's business, the course proved to be very successful.

**"IT'S A WELL ORGANISED, WELL-COORDINATED AND VERY USEFUL COURSE."**

A Wärtsilä customer would certainly benefit from such tailored course programmes. WLSA are able to seamlessly integrate the specific requirements of an organisation into the training, concludes Mr. Seun Egunjobi.