



DESCRIPTION ASD/ATD COURSE

ADVANCED LEVEL

GENERAL

The Azimuthing Stern Drive (ASD) and Azimuthing Tractor Drive (ATD) tug are one of the most versatile tugs around. To operate these tugs to their full potential, an intensive training is required.

To achieve optimum efficiency and high quality it is important that assessments and trainings are carried out in a realistic environment. Therefore, our training facility has one of the most advanced and realistic ASD tug simulators in the world. The simulator has a bright field of view of 360° and is equipped with identical Damen 2810/3212 bridge consoles and original navigation equipment. The second simulator has a 120° field of view and can be used for the same training scenarios. The simulators can be linked, which results in the possibility to practice realistic interactive towing and assisting scenarios with more tug boats involved. The used ship models all have realistic dynamic behaviour.

This advanced training has been developed for captains and mates who are already capable of manoeuvring with azimuthing thrusters and who want to improve their skills to be able to deal with more complicated manoeuvring situations in a safe and efficient way. The training focusses on the wide range of manoeuvring possibilities that becomes available with this type of propulsion.

TARGET GROUP

- Tug boat captains with basic ASD/ATD manoeuvring skills, who want to improve their manoeuvring level;
- Crewing agencies that want to train ASD/ATD captains or mates to improve their manoeuvring level;
- Ship owners that want to train ASD/ATD captains or mates to improve their manoeuvring level;
- Ship owners that due to new developments are confronted with a different operation method of their tug boats;
- Ship owners or crewing agencies who wants to develop a "Train the Trainer" program.

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| OBJECTIVE | <p>The general objective is that the participant is:</p> <ul style="list-style-type: none"> • able to perform ASD/ATD manoeuvring and assisting operations in a safe and efficient way; • able to maintain a constant situational awareness during operations; • aware of the capacity of the tug boat, but also the restrictions of the tug boat. |
| METHOD | <p>By applying a systematic practical program, the participant will gradually work towards the overall learning objective.</p> <p>Subjects theoretical sessions:</p> <ul style="list-style-type: none"> • Mathematics in towage; • Various types of tugs; • Various types of assistance; • Interaction effects; • Factors determining tug design and utilisation; • Towage equipment; • Safety in towage. <p>Subjects practical sessions:</p> <ul style="list-style-type: none"> • ASD tug manoeuvring; • Assisting methods; • Relative tug behaviour; • Situational awareness during vessel assistance; and • Safety on board and leadership |
| ON THE JOB TRAINING | <p>360-Control features next to the realistic simulator training, the unique possibility to manoeuvre on a Damen ASD 2810 tug boat. If required a training session on board could be scheduled.</p> |
| NUMBER OF PARTICIPANTS | <p>In order to have an above average practical training time on a simulator and to reach the highest possible level at the end of the training, we advise:</p> <p>1 to 3 participants when using one simulator and 3 to 5 participants when using two simulators</p> |
| COURSE DURATION | <p>4 days Other course duration possible in consultation.</p> |
| TIME | <p>Each day from 08:30 until 16:45 hours. Other training times in consultation</p> |
| INSTRUCTORS | <p>Trainings and assessment will be conducted by qualified instructors with extensive manoeuvring experience on ASD/ATD tugs.</p> |
| LANGUAGE | <p>English or Dutch Other languages in consultation</p> |

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| CERTIFICATE | At the end of the course, each participant will execute an exam run. On successful completion the participant will receive a 360-Control "Advanced level ASD/ATD manoeuvring" certificate. |
| LUNCHES | Lunches will be provided Should you have special requests, please let us know. |
| CONTACT | <p><u>Address</u> 360-Control Monnickendamkade 19A 1976 EC IJmuiden</p> <p><u>Contact</u> E : info@360-control.nl P : +31 (0) 255 820 250 W : www.360-Control.nl</p> |
| LOCATION | <p>The training centre is located in the port of IJmuiden, which is the entrance to the port of Amsterdam. Schiphol Airport and interesting sights such as the historical cities of Amsterdam and Haarlem are easy to reach.</p> <p><u>Travel time by car:</u> Schiphol airport: ± 25 minutes Amsterdam (centre): ± 40 minutes Haarlem (centre): ± 20 minutes IJmuiden beach: ± 5 minutes Zaanse Schans: ± 30 minutes</p> |
| HOTELS | Hotels with different quality levels are available in the vicinity of IJmuiden, however also the cities of Haarlem and Amsterdam could be interesting options to stay. |
| TRANSPORT | Transport to and from locations such as airports or hotels can be arranged by 360-Control. |
| INVOICE | Trainings costs and additional services carried out by 360-Control can be listed on one invoice. |
| GENERAL CONDITIONS | General conditions apply |