

## HWG-Newsletter 10/2014

### Man-overboard training in the harbour basin

**Interview with Rolf Fremgen, director of the Cuxhaven Sea Survival Centre and partner in the Cuxhaven Offshore Safety Training Centre (O.S.T. Cuxhaven GmbH & Co.KG)**



**Mr. Fremgen, you have been directing the Cuxhaven Sea Survival Centre (SSCC) since 2004. Why is it so important to complete a safety training course? And, what courses do you offer?**

Whoever enters a wind park, no matter whether it is on- or offshore, has to take a special training course. That goes for everybody from the engineer right down to the service personnel. The social insurance organisation against occupational accidents generally states what safety courses are mandatory for on- and offshore personnel. They include basic courses lasting five days, courses for three days and one-day refresher courses that the personnel have to take every year. Of course, you can also book just one training module.

Courses are limited to no more than twelve persons, and there is one trainer for every two persons to make sure that everybody is taught all of the course content. Safety training is so important, because there are special rules that have to be followed for wind power plants. Safety and rescue training for one of these plants includes such things as climbing the tower, surviving on the high seas or even underwater exit from a helicopter that has fallen into the sea. There is also practice on fire fighting and safe transfer from ship to safe ground or from ship to ship. You can learn all of these things and apply them in hands-on exercises.

After 35 years of serving in the German Army, my training and experience in safety and rescue procedures prompted me to set up SSCC as a way of meaningfully using my free time in retirement. Together with my twelve-man team, we offer courses in survival at sea, helicopter escape training, ship safety, climbing and rescuing (for on- and offshore wind parks) and transfer training (such as climbing from boats to the wind park). The special courses for on- and offshore wind parks are also taught in cooperation with the Cuxhaven Offshore Safety Training Centre that I'm also a partner in.

### **Why is Cuxhaven the natural location for a training centre like this?**

When you talk about offshore, you have to go offshore. And that means going to the coast. Cuxhaven is the ideal location for a safety training centre with its geographic position at the mouth of the Elbe River and as an offshore base port. Real-life conditions have a major role to play in training. For instance, we also do man-overboard training in the harbour basin and transfer training at the Golf Beacon navigation aid that we are able to use with the approval of the Cuxhaven Shipping Authorities. It's not surprising that the companies headquartered in Cuxhaven profit from this training centre. We are very flexible so that we can also find times for courses booked on short notice – that's one of our stand-alone features.

We teach the STCW (standards of training, certification and watch keeping) refresher courses that we offer to ship crews together with Burkhard Rasch, the Cuxhaven captain and manager of the IMCS (Independent Marine Consultants and Surveyors). They go for four days with a curriculum that is similar to the courses mentioned above. We even had members of national and international ship crews in Cuxhaven for training in 2013.

### **What are the current developments and new projects?**

We installed an exercise tower for practical exercises such as climbing and rescuing for the Cuxhaven Offshore Safety Training Centre (O.S.T.) in October of 2013. Beyond this, there is a new water training hall being built that is scheduled for activities starting in March of 2015, both for SSCC and O.S.T. Furthermore, we're starting an entirely new training course in using emergency breathing apparatuses (HEED = helicopter emergency escape devices) in connection with the helicopter escape training course that we will include in our curriculum starting in December 2014.

In spite of a slack period in offshore wind power, we are still teaching our courses. As a matter of fact, we are even experiencing a slight rise over last year equalling five to six courses more than in 2013. After all, wind parks have to be serviced and maintained when they are finished. That means that the strategy for our safety training centres in Cuxhaven is definitely sustainable and will stay open in future.



Twelve students form two groups in the ship evacuation training course learning to stay close to each other to prevent cooling. This training course takes place in the ferryboat harbour. You can see the exercise tower in the background on the right-hand side.

## Tower giants for offshore wind power plants come from Cuxhaven



The company AMBAU GmbH, a HWG member, finished two special jobs in Cuxhaven in the last three months, building three towers for offshore wind parks: Two towers were 120 meters high and built for Siemens Wind Power GmbH, and a prototype tower, which was 106 meters high and built for MITSUBISHI Heavy Industries Europe, Ltd.

The ten tower segments for Siemens' two wind power plants that AMBAU produced in the Cuxhaven facility were loaded onto a ship in the harbour and transported to JadeWeserPort. Then, the segments weighing 200 tons each, along with other components of the plant, were brought from there to the Anzetel Research Park near Wehlens in Wilhelmshaven, where offshore turbines can be tested on land.

These turbines are Siemens 6.0 megawatt wind power plants with direct drive. To erect these extraordinarily high plants, they needed one of the five largest cranes in Europe.

Meanwhile, the prototype tower for MITSUBISHI Heavy Industries Europe consisting of four segments will be used in an onshore testing field in Hunterston in Scotland on the northern Ayrshire coast. Thanks to the powerful wind, this is where offshore turbines can be tested under conditions very similar to those on the high seas.

AMBAU and the technicians from Japan put their heads together to produce the steel installations in AMBAU's facilities in Gräfenhainichen and Am Mellensee. These units with a diameter of 7.33 meters were installed on the bottom flange of the tower in Cuxhaven in the final step of assembly. Finally, it was loaded at berth 8. This turbine is a 7-megawatt plant dubbed SeaAngel with a rotor diameter of 167 meters. Measuring 106 meters high, this prototype tower is the biggest of its type.



## **NPorts is reconstructing cold storage house III**

Niedersachsen Ports GmbH & Co. KG, a member of HWG, has started reconstructing and modernising its deep freezing unit III in the Cuxhaven fishing harbour. They invested 1.6 million euros to reconstruct the building's refrigerating plant in a way that enables them to continue parallel cold storage operation. This is done by replacing the refrigerating plant housed in the upper floor with a new state-of-the-art energy-efficient plant. It will be moving into a new machinery house that is being built in a new building next to the cold storage house. Nports, the EU (the European Fisheries Fund) and the German state of Lower Saxony are funding this six-month construction project.

Hans-Gerd Janssen, director of the Cuxhaven branch office of Niedersachsen Ports, says, "We're creating a state of the art, high-performance plant for our customers." The deep freezing unit III in Neufelder Strasse was erected in the 60's and belongs to Niedersachsen Ports, while the lessee and operator is Cuxhavener Kühlhaus GmbH. This cold storage house is 33,000 cubic meters in size which means that it has space for as much as 13,000 tons of goods. DFFU ships and reefer vessels from overseas dock at this cold storage house. Their deep-frozen fish (as much as 5,000 tons per call) can be put in intermediate storage on pallets at minus 23 degrees for as much as two years before they are further processed.

## Introducing HWG: a corporate portrait of Herbert Machulez GmbH



### Background data

Company name:	Herbert Machulez GmbH
Founded:	1975
Sector:	harbour transshipment / storage operation for bulk materials and unit loads, services for the offshore industry (scour protection), trading in scrap and metal, recycling of recoverables, dismantling ships and industrial disassembly
Locations:	Cuxhaven, Neuer Fischereihafen, Hansakai and Neue Industriestrasse 5
Portfolio:	24/7 harbour services performed by qualified personnel with special tools such as harbour transshipment excavators, portal cranes (pier 135 m), wheel loaders (0.8m <sup>3</sup> -5m <sup>3</sup> ), compact loaders and fork-lift trucks 70,000 m <sup>2</sup> of free storage space and 3,000 m <sup>2</sup> of covered storage space

## Interview with Dipl. Wirt.-Ing. Cornelia Machulez, the managing director

### **Question 1 –What are the qualities you would use to characterise your company?**

Our company offers our customers custom-made logistics solutions at any time with a high level of reliability and quality. Beyond this, our highly motivated expert personnel provide a high degree of service and flexibility. Finally, we pool our efforts with the Machulez Group to offer wide ranging logistics services (ocean/inland traffic, road transport, construction sites, final customer delivery and disposal) from one source.

### **Question 2– Why are you a member of HWG?**

HWG enables us to participate in a comprehensive network while providing harbour logistics experts with a platform for keeping them on top of the latest news.

### **Question 3– What would be your personal wish for your company?**

Being successful while staying on top of the market at the growing and inventive Port of Cuxhaven.

You can find more information on our company under: [www.machulez.de](http://www.machulez.de)

Hafenwirtschaftsgemeinschaft Cuxhaven e.V. sent you this notification.

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