



Maersk Training

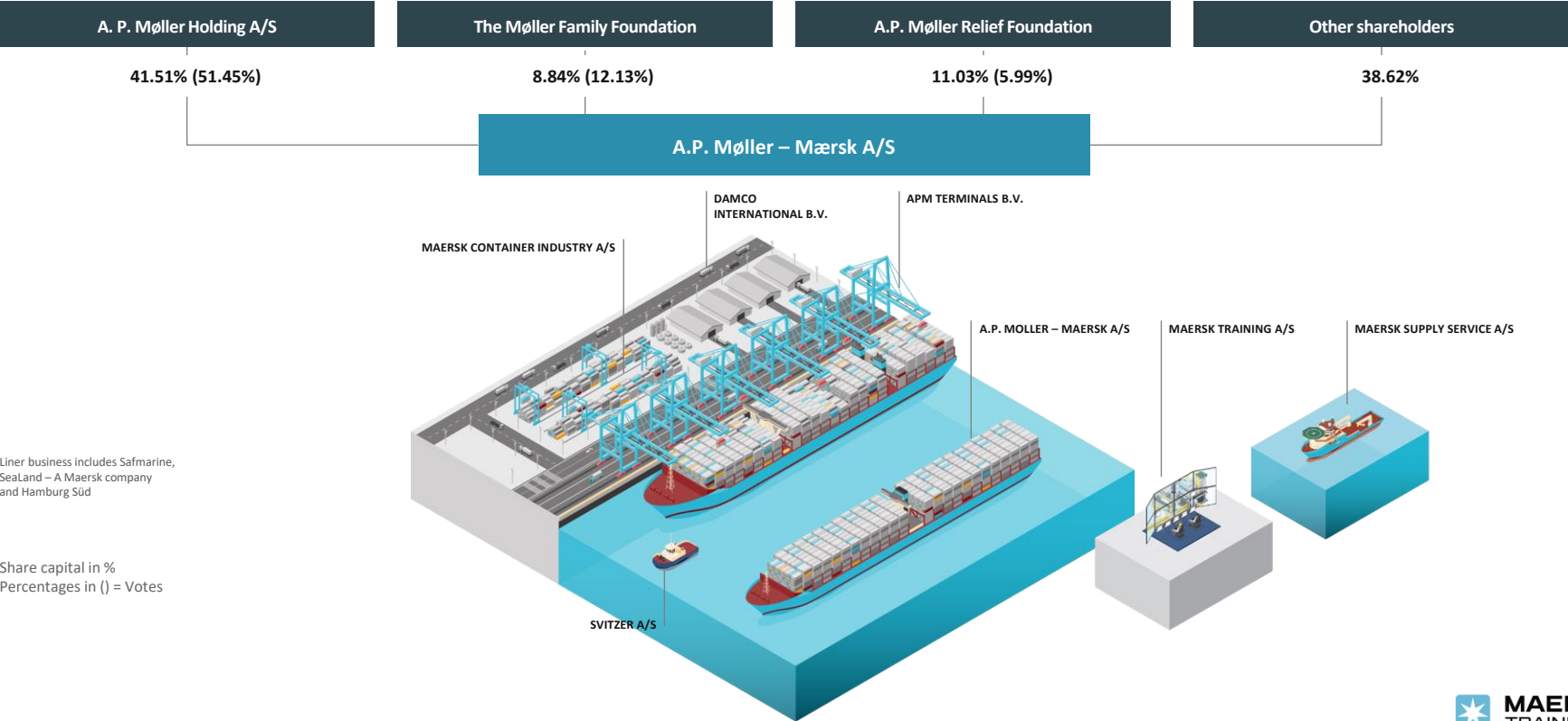
Training for the Wind Industry

Alex Øbell Nielsen, Head of Business Development



MAERSK

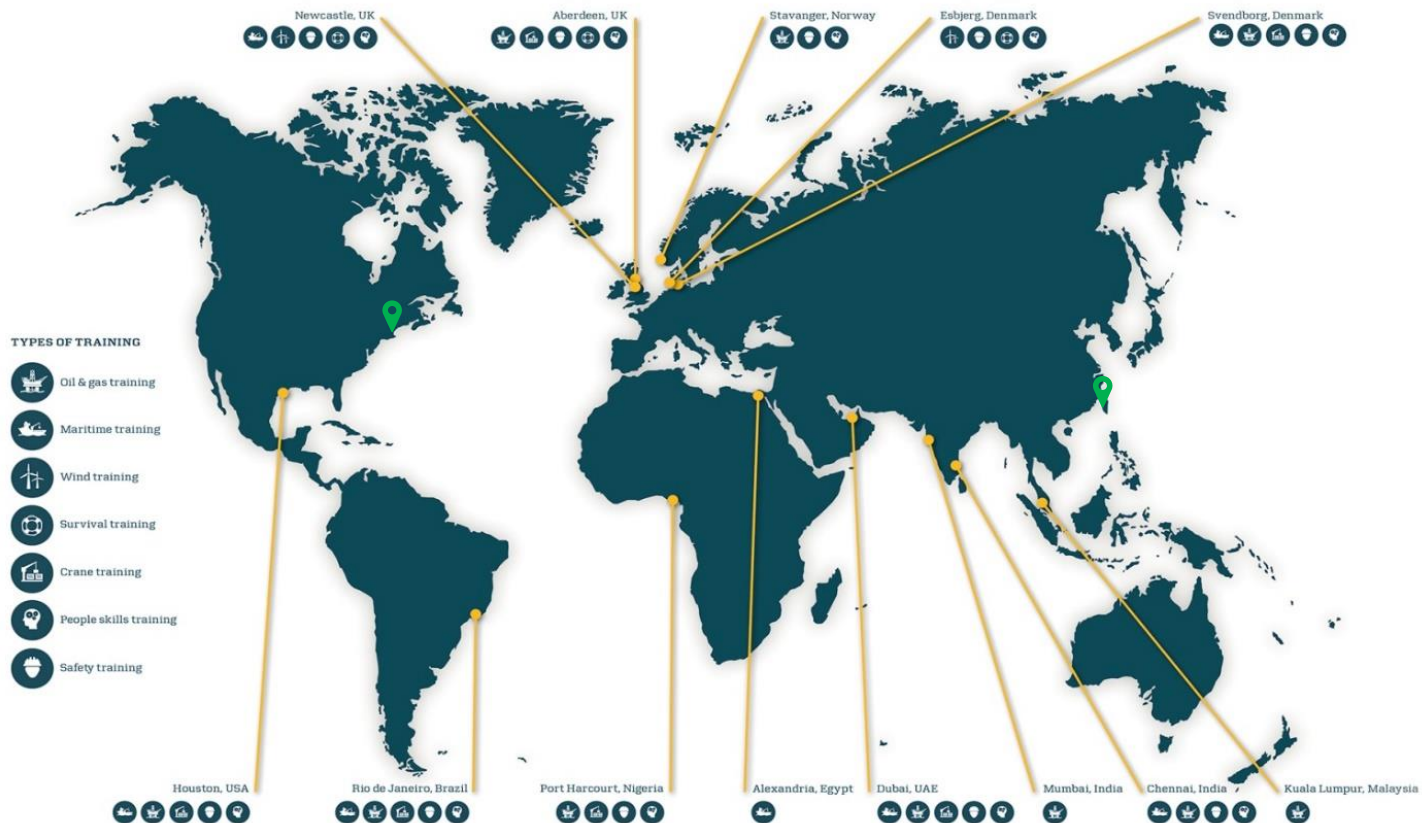
Ownership structure



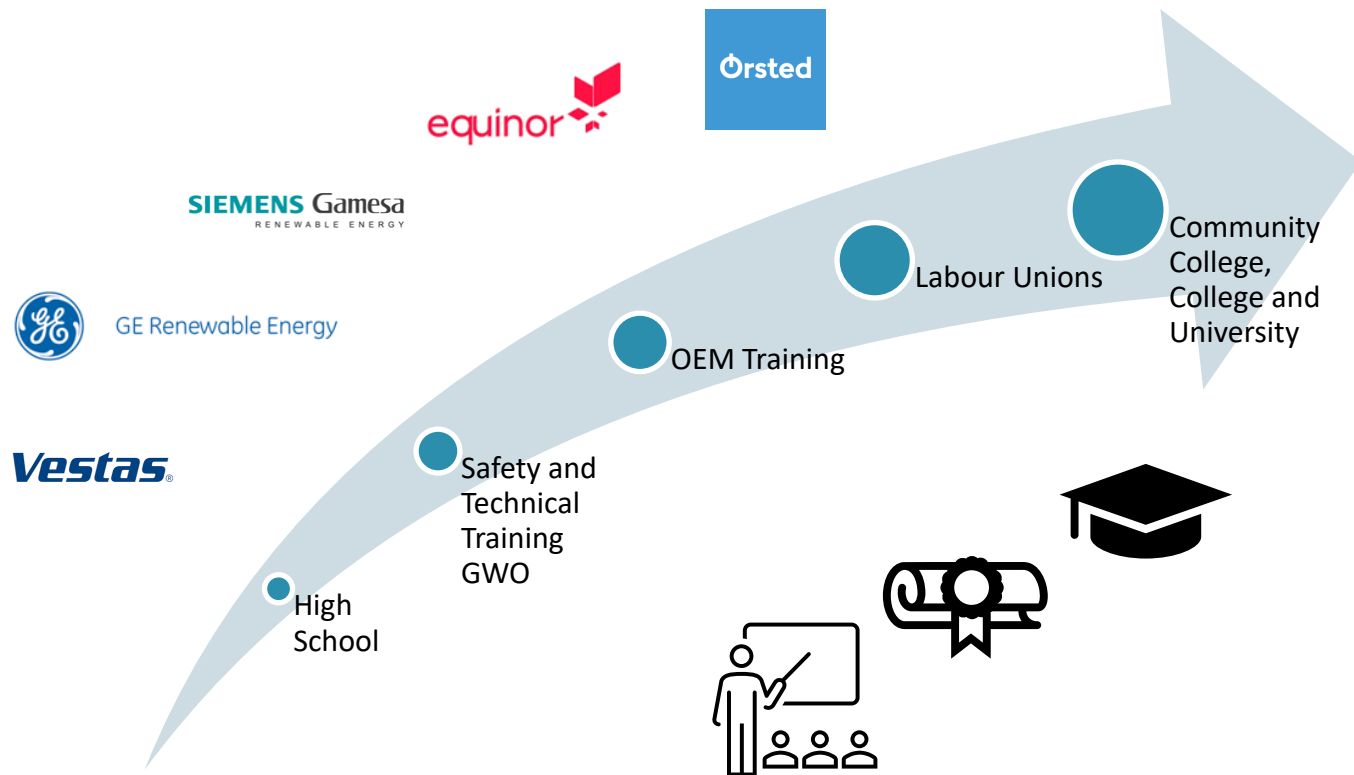
Maersk Explorer Blowout incident 1977



Training facilities



Training, Education and Research in the Wind Industry...



GWO Training Standards

GWO members strive for an injury free work environment in the wind turbine industry, setting common international standards for safety training and emergency procedures.

Basic Safety Training is a 6-day course:

- Working at Heights
- Fire Awareness
- First Aid
- Manual Handling
- Sea Survival

Basic Technical Training is a 4-day course:

- Mechanical
- Electrical
- Hydraulics
- Installation

Advanced Rescue

Enhanced First Aid

Blade Repair

Lift User

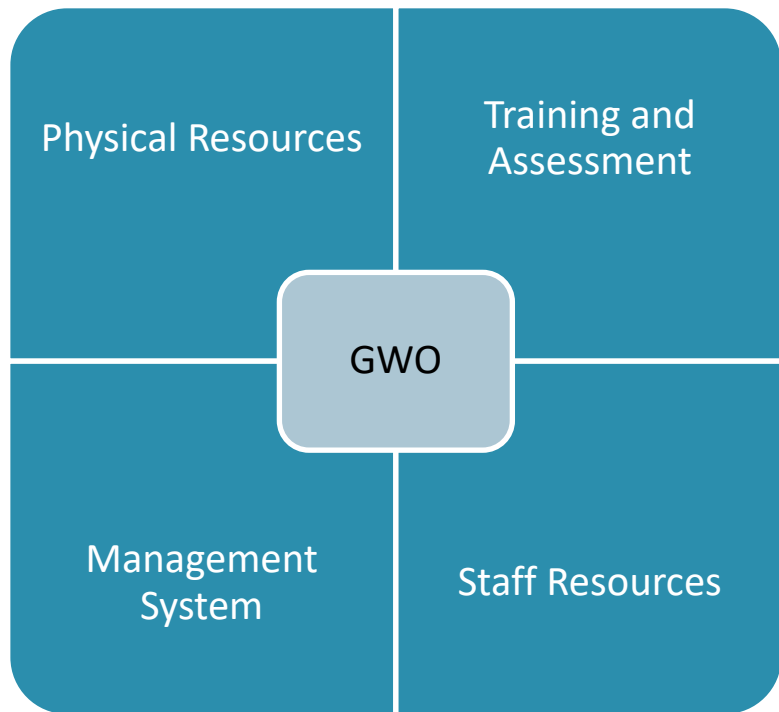


Training for the Wind Energy Industry

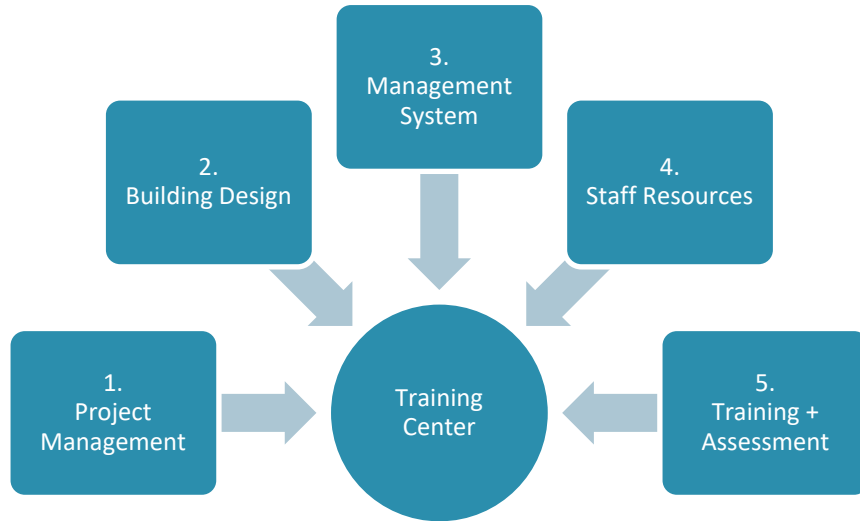


Formal requirements for GWO training

Global Wind Organisation is a non-profit body founded by leading wind turbine manufacturers and operators

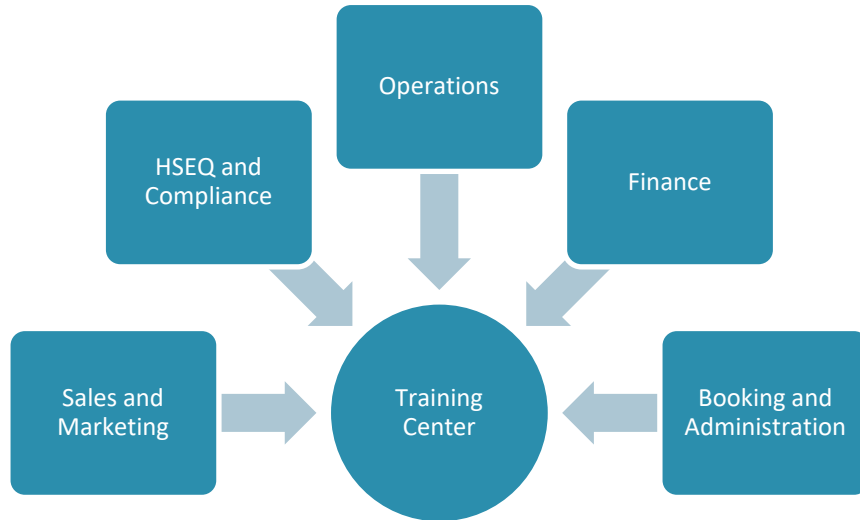


Design and Construction of a training center



1. Maersk Training have experience in Project Management with large scale projects establishing new training centers supporting Oil & Gas, Maritime and Wind Industries around the world.
2. Maersk Training have designed several new training centers, both completely new builds but also refurbishing existing buildings. We have experience in sourcing and installing of relevant and industry specific training equipment.
3. Maersk Training General Management System has been developed to meet the needs and expectations of the interested parties, by covering all activities relating to developing, preparing, executing and evaluating our activities.
4. Maersk Training instructors are extensively trained, highly skilled and competent and are subject to regular competence and verification assessments to ensure they are delivering current information which meets the necessary standards. With regards to the training of GWO instructors specifically, we have star instructors who are the knowledge expert in that area.
5. Maersk Training was the first training provider to receive GWO Accreditation and continuously work with GWO and the wind industry establishing new training standards

Operations of a training center



With more than 40 years experience, Maersk Training is recognized by accredited bodies as the benchmark provider of generic and bespoke training and other services within Oil & Gas, Maritime and Wind industries.

As Maersk Training were the first training centre in the world to be accredited by GWO, we bring over 8 years of delivering GWO BST and BTT training. This experience has also ensured a positive and innovative relationship with GWO, as both parties to work in conjunction with one another to develop new training standards.

Maersk Training is an independent business unit under A. P. Moller – Maersk hence we have the agility and flexibility of a smaller business unit however we are in direct line of communication with A. P. Moller Maersk headquarters and can utilize this vast network.

Today Maersk Training operates 14 training centres worldwide and are open to all companies.

Maersk Training and MIRDC

PRESS RELEASE

<https://www.maersktraining.com/maersk-training-backs-new-gwo-training-centre-in-taiwan-roc/>

Maersk Training, an industry leader in developing competences and increasing skills has entered into a cooperation to establish a specialist programme in Taiwan within the Metal Industries Research and Development Centre. The new centre, which will come online in July 2020, will train technicians for the country's new and expanding wind turbine industry.

The centre will deliver GWO training as of August 2019, using Maersk Training's Mobile Training Facility, ensuring a skilled local labor force working in the offshore wind industry. The Mobile Training Facility will be in operation for approximately 12 month until construction of the training centre has been completed.

Taiwan has some of the best weather conditions to harvest energy from wind and plans to increase its currently low output by a factor of nearly 500 times. This will take production up to 3.8 in the first phase and then 5.5GW by 2025, which is around 12% of the expected consumption. Taiwan today is relying on coal, gas and nuclear to generate its power and it has the world's largest coal fired power station.

The collaboration with Maersk Training started immediately after the contract was signed with a dedicated team overseeing the establishment of the centre, its equipping, manning and course scheduling.



Maersk Training partnership in Taiwan

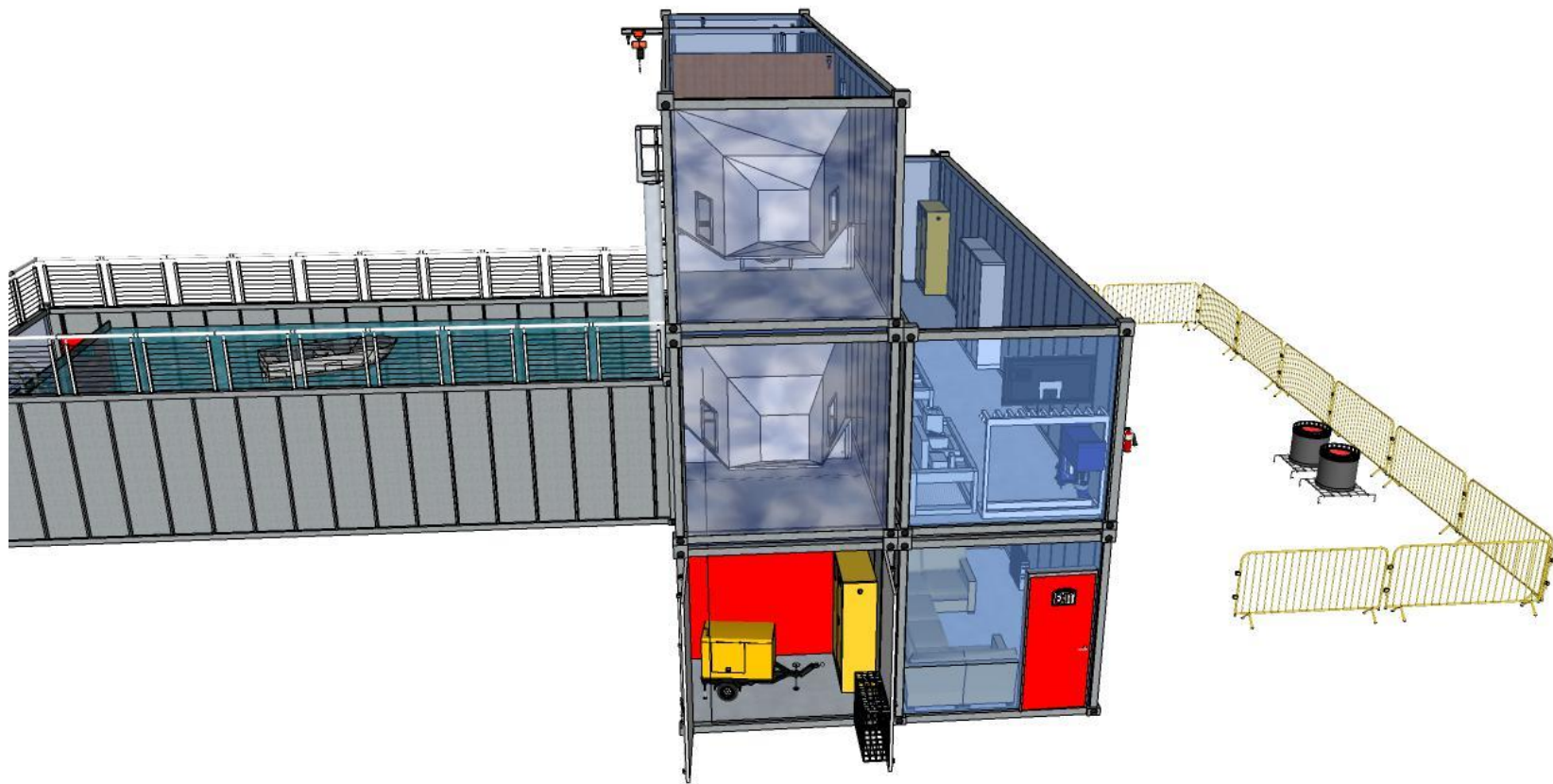
- Taiwan has set very ambitious goals for offshore wind power with a target of 5,5 GW by 2025 and will add 10 GW from 2026-2035
- Maersk Training has partnered with MIRDC in Taiwan to design, construct and operate a new training centre in Kaohsiung, Taiwan. The Bureau of Energy is funding the project.
- MIRDC is a nonprofit organization (Metal Industries Research and Development Centre) that has been commissioned (and in part funded) by the Bureau of Energy to establish a Marine Engineering Training Centre in Taiwan and a GWO accredited training centre.
- MIRDC with headquarters in Kaohsiung, Taiwan. 11 branches in Taiwan, established in 1963 - 900+ people. 1,000+ patents within automotive industry, metal materials, mold and micro manufacturing, medical devices, green energy.
- The GWO accredited training centre must be operational by end of 2020.
- Maersk Training and MIRDC may agree upon a Management Contract when the training centre is operational.

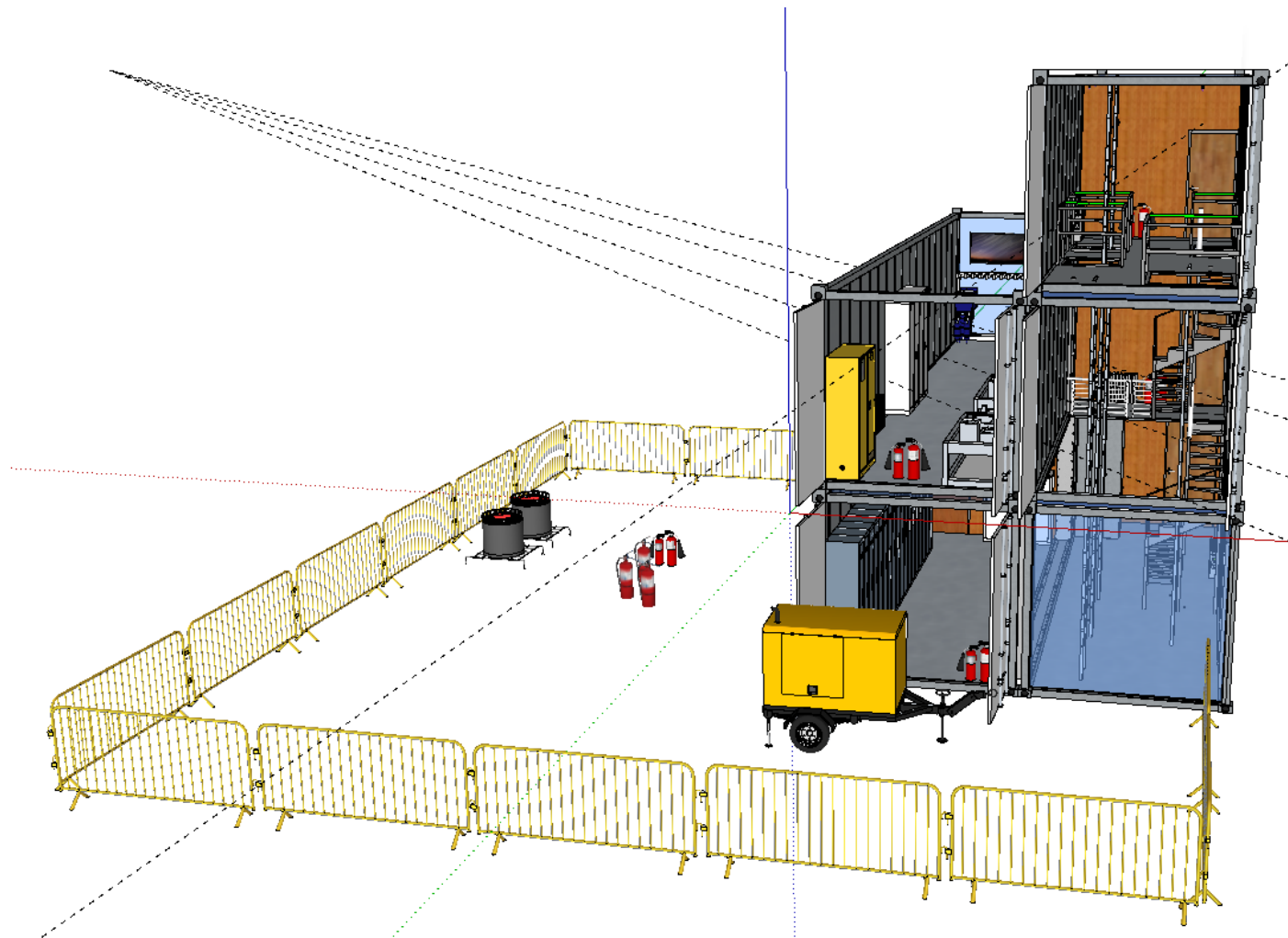


Mobile Training Facility

Immediate delivery of GWO training.

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- **GWO Working at Height:** GWO approved working at height ladders are fitted and deployed during the course to run all practical exercises.
 - **GWO Fire Awareness:** The centre is positioned in a way to allow for a fire ground.
 - **GWO First Aid / Enhanced First Aid:** Should a classroom not be available; a mobile classroom will be set up using the mobile centre.
 - **GWO Manual Handling:** The centre is positioned in a way to allow for ample practical training space.
 - **GWO Sea Survival:** The centre is located near quayside to allow for the transition piece to be deployed. The mobile solution includes the Maersk boat and samples of sea water are taken to ensure it meets GWO standards.
 - **GWO BTT:** A Maersk GWO BTT training room is installed in the solution which includes all BTT workstations.
 - **GWO Advanced Rescue:** The mobile solution also allows for the soon to be GWO approved advanced hub rescue. A retractable hub unit is fitted as well as the design for challenging confined space courses (awareness, entry and rescue). Advanced hub rescue and advanced wind turbine rescue are ready made courses and can be delivered immediately.
 - **Confined Space:** One container internal is designed for confined space training and gives a realistic and challenging environment for the course.
 - **Customer specific training:** such as Vestas VBTT





Thank you