

Republic Democratic Popular Of Algeria

Ministry Of Transport

E T F I M Mostaganem

Long Term Training

Section : Patron Of The Coast Navigation (P N C)

Module: English

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Maritime English

Lesson N°03



LessonThree:

1/Tug Boat Definition

2/Types Of Tug Boats

3/Diagram Of Components

4/Listening and Watching To Video Of Tug Boat



1/Definition Of Tug Boat:

A **tugboat** or **tug** is a **vessel** that maneuvers other vessels by pushing or pulling them either by direct contact or by **means** of a tow line. ... Some **tugboats** serve as icebreakers or salvage **boats**. Early **tugboats** had steam engines, but today most have diesel engines.

tug boats are the beast. they pack huge power in small size. ... the **tugs** have one job, they have to churn enough water to create thrust which can displace or move ship. remember, anchored ships are easily moved by sea waves, **tugs** are way more **powerful** than that.

2/Tugboats are classified into three types:

- **Seagoing tugs** – also known as deep-**sea** tugs or ocean tugboats.
- **Harbour tugboats** – generally smaller compared to seagoing tugboats, with higher width-to-length ratio.
- **River tugboats** – also referred to as towboats or pushboats.

1/**The ocean tug:** is a tugboat used on the high seas, as opposed to smaller harbor tugs which stay in port. The oceanic tugboat sails on the sea, the bow is high, and the structure is strong to prevent the waves from hitting the sea. Its hull is small and the water is deep. There is no cabin on board the cargo. The powerplant on the ship is powerful, and the ship is equipped with towing equipment. The towed transport method is used to tow the ship without power. The ocean-going tug can be towed with a ship in the same way as a locomotive towed a train with a row of towed barges; it is also possible to tow barges from both sides.

2/Harbor tug :- Displacement up to 300 tons, power plant capacity up to 500 kW (680 hp), designed for towing (moving, moving) non-self-propelled boats, as well as ships (ships) in ports. Port tugs have additional propulsion devices (winged, active rudders) and thrusters, which significantly increase their maneuverability. Port tugboats are the most important harbor ships, and they are most frequently used in port operations. Its role is to be used to tow other ships or floating buildings, to help by docking, berthing and other operations .

3/River tugs :are also referred to as [towboats](#) or pushboats. Their hull designs would make open ocean operation dangerous. River tugs usually do not have any significant hawser or winch. Their hulls feature a flat front or bow to line up with the rectangular stern of the barge, often with large pushing knees.

3/Diagram Of Components: Schema des Composents

