




| | | | | |
|---|--|---------|------------|---|
|  | Training Centre - Quality Management System | Ref. No | CD/TMT/03 |   |
| | | Rev. No | 01 | |
| | Course Descriptor | Date | 21/03/2023 | |
| | | Page | 1 of 2 | |

TUG MASTER TRAINING (TMT 5 days)



TUG MASTER TRAINING

HIGHLIGHT:

Our inhouse simulator based Tug Master training is a potent combination of knowledge, theory and practice. Delivered by experienced Master Mariners with first-hand expertise across the full range of tug types, our methods are based on in-depth tug operation knowledge combined with extensive towage experience in all conditions and environments..

COURSE CONTENT AND OBJECTIVES:

The structure and contents of this course align with the IMO MSC/Circ. 1101; MEPC/Circ.409; FAL/Circ.100 8 September 2003: Ship/Port interface, availability of tug assistance.

The Tug Boat Master theory consists of theoretical studies in a class room environment and is supplemented by bridge simulator training using different tug models.

Some examples of the topics addressed during this course are:

- ❖ Factors determining tug design
- ❖ Various types of harbour tugs
- ❖ Assisting methods
- ❖ Tug capabilities and limitations
- ❖ Manoeuvring aspects of ships to be assisted
- ❖ Tug capacity requirements
- ❖ Interaction and tug safety
- ❖ Towing equipment
- ❖ Escort towing and terminal operations
- ❖ Towage and Tug knowledge

PRACTICAL MANOEUVRING SIMULATION:

These training courses take place in a state-of-the-art simulator. The trainers are highly experienced experts in tugs and towage who will guide you towards becoming a towage expert yourself.

Basic Tug Handling

- ❖ Mooring
- ❖ Unmooring
- ❖ Sailing ahead and astern
- ❖ Turning
- ❖ Side stepping
- ❖ Emergency stops
- ❖ Coping with currents and other relevant aspects

Basic Harbour Towage

- ❖ Connecting to moored vessels and vessels at moderate speed with and without current
- ❖ Coming alongside
- ❖ Push-pull
- ❖ Following up pilot commands
- ❖ Direct and transverse arrest
- ❖ Direct and indirect steering

Advanced Harbour Towage

- ❖ Connecting at high speed
- ❖ Coping with and avoiding the influence of ship/tug interaction
- ❖ Getting more insight
- ❖ Speeding up your manoeuvres
- ❖ Dealing with push pull at speed
- ❖ Avoiding donkey effects

Escort Towage (advanced)

- ❖ Escorting ships at different speeds under different circumstances and environmental conditions
- ❖ Tug handling, towing, and ship/tug interaction
- ❖ Emergency situations
- ❖ Communication on board
- ❖ Communication with pilots
- ❖ Tug knowledge
- ❖ Familiarization with operating area
- ❖ Special Operations

ELIGIBILITY:

The courses cater to levels ranging from New Crew Member to experienced Tug Master who seek refresher training

DURATION:

5 DAYS

COURSE DELIVERY:

Master Mariner(s) with Relevant field experience and dedication, delivers the Training programme

AID & INFRASTRUCTURE:

Full Mission Bridge Simulator at NTCPWC, IIT MADRAS

PARTICIPANTS:

Maximum 4 per batch




LANGUAGE:

The training shall be conducted in English and Hindi

CONTACT:

training@ntcpwc.iit.ac.in

Bringing cutting edge technology to the ports and maritime sector

| | | | | |
|---|--|---------|------------|---|
|  NATIONAL TECHNOLOGY CENTRE FOR PORTS WATERWAYS AND COASTS | Training Centre - Quality Management System | Ref. No | CD/TMT/03 |   |
| | | Rev. No | 01 | |
| | Course Descriptor | Date | 21/03/2023 | |
| | | Page | 2 of 2 | |



Bringing cutting edge technology to the ports and maritime sector