

Tractor Tug Training Program

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Minimum Requirements

Outlined is a set of minimum requirements for all of the Training Masters as well as the Trainee in order to establish a baseline of experience and credentials, which will ensure that the quality of trainers and trainees is kept at a high standard. This program will consist of 4 basic sections:

1) **Observation Time;** 2) **Light Boat Handling;** 3) **Ship Assist Work;** 4) **Final Sign Off**

Observation Time

Observation time will serve as a formal orientation of the day-to-day operations of the tractor tug. This will be a time when the Training Master will demonstrate and explain the different techniques that are used to operate the tug. Once the requirements are met under the Observation Section, the trainee will be able to proceed to the next module.

Light Boat Handling

Light Boat Handling is set up with the intention of taking trainees through different evolutions in an order from the easiest to the most technical. These evolutions must be kept in the order that they are listed and the trainee may not skip a step during the check off process. It is very important that both training parties understand that if the Training Master is signing off on the evolution, this means that he feels that the Trainee has completed the evolution with 100% proficiency, without question. Light Boat Handling will incorporate four modules;

- 1) Open Water Training: This will allow the Trainee to incorporate the different techniques that were witnessed during the observation period and apply that to the general feel of the tractor tug. Open water means not in the direct vicinity (within 300') of any vessel or structure. This will be at the masters discretion.
- 2) Close Quarters Training: This will allow the Trainee to take the skills he has developed operating thus far and begin to get the feel of the Tractor Tug in closer quarters, or in the vicinity of other vessels, docks, buoys etc. The trainee will be brought through a more aggressive operating environment and will be expected to complete all the modules to the satisfaction of the Training Master.
- 3) Incorporation of the Working Line and Winch: This will add another dimension that must be learned and perfected to continue on to the next step. The Trainee will be expected to incorporate the function and operation of the winch aboard the tug. This must be accomplished by the Trainee without the help and assistance of the Training Master.
- 4) Emergency Maneuvering Training: The Trainee will be faced with numerous scenarios which factor in the loss of main propulsion and how to recover from this. Emergency systems and techniques will be introduced to the trainee and he will have to demonstrate full understanding and ability to use such resources.

Once the Light Boat Handling modules are completed and signed off the Trainee will be introduced to the Assist Training Section. All of the Training Masters and the General Manager of this division of ECO must approve the authorization of this step.

Assist Training

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In this chapter the Trainee will be introduced to the numerous evolutions that we experience on a day-to-day basis during ship assist operations. There are four basic positions, with regards to the ships that we handle. Each of these positions requires several different techniques depending on placement of hull chocks, port or starboard side of ship, weather, desires of the pilot, etc. The Trainee will be required to be proficient in all the different elements of each individual position before advancing to the next position. The Trainee will need to execute 5 evolutions without the help or assistance of the Training Masters to be signed off on that position. Once the Trainee has proven to be proficient in each of the four positions, he will need to be signed off by at least 3 of the Training Masters and the General Manager of this division of ECO. It is very important that all parties understand that by signing the Trainee off on this step that he is 100% proficient in ship assist work. The final signing off and responsibility will be by ECO management.

Section 1. Observation Time

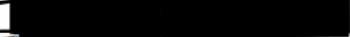
The objective of this section is to allow the Trainee to observe the Master during operating maneuvers. This time will allow the Master to define the basic Z-Drive fundamentals. The Trainee will be required to ride along and observe for a minimum of 20 Ship Assist Jobs.

NO.	Date 2022	Tug	Pos.	Ship Name / Day or Night / Any Comments	M/I's
1	2-4	Gregory	4	Celcius Charlotte / Night / IB	
2	2-5	Gregory	3	Mol Hestia / Night / OB	
3	2-6	Gregory	2	Gustav Warsaw / Day / IB	
4	2-6	Gregory	4	Celcius Charlotte / Day / OB	
5	2-7	Gregory	2	Gustav Warsaw / Night / OB	
6	2-8	Gregory	4	Castillo de Caldelas / Night / IB	
7	2-9	Gregory	4	Castillo de Caldelas / Day / OB	
8	2-9	Gregory	3	Aldamastos / Night / IB	
9	2-11	Gregory	3	Aldamastos / Night / OB	
10	2-11	Gregory	3	Maran Gas Andros / Day / IB	
11	2-13	Gregory	3	Maran Gas Andros / Night / OB	
12	2-13	Gregory	1	Cool Disc. Verner / Day / IB	
13	2-14	Gregory	1	Cool Disc. Verner / Day / OB	
14	2-15	Gregory	3	Hellas Athena / Night / IB	
15	2-16	Gregory	4	Bias Baixus Kantzen / Night / IB	
16	2-17	Gregory	3	Hellas Athena / Night / OB	
17	2-18	Gregory	4	Bias Baixus Kantzen / Day / OB	
18	2-18	Gregory	2	Maran Gas Athena / Day / IB	
19	2-19	Gregory	2	Maran Gas Athena / Night / OB	
20	2-19	Gregory	3	Castillo de Villalbu / Night / IB	

I hereby certify that the above jobs have been observed as documented above.
















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Trainee Name: Timothy Thorsen











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Section 2. Light Boat Handling

A. Maneuvering Light Boat (Open Waters)

Maneuver	Date	Tug	Comments	M/I's
Transverse Arrest/Stop Drag	2-23	Gregory		
Slow Forward Motion	2-23	Gregory		
Stop (Transverse Arrest)	2-23	Gregory		
Slow Astern Motion	2-23	Gregory		
Hold Course & Speed @ 25%	2-23	Gregory		
Hold Course & Speed @ 50%	2-23	Gregory		
Hold Course & Speed @ 90%	2-23	Gregory		
Stop & Hold Course (Fwd.)	2-24	Gregory		
Stop & Hold Course (Aft.)	2-24	Gregory		
180* to Port & Starboard	2-24	Gregory		
360* to Port & Starboard	2-26	Gregory		
Walk to Port & Stop	2-24	Gregory		
Walk to Starboard & Stop	2-26	Gregory		
Walk at Different Angles	2-26	Gregory		
Run Bow First & Hold Course and Speed (Assist #1 Position)	6-1 2-25	Arunas Gregory		

B. Maneuvering Light Boat (Close Quarters)

Maneuver	Date	Tug	Comments	M/I's
Hold 10' off terminal pads and walk to port & starboard holding distance	2-26	Gregory		
Hold 10' off and walk @ a 45* attitude for 300'	2-26	Gregory		
Walk tug away from dock	2-26	Gregory		
Bring tug to the dock	2-26	Gregory		
Back away from pad, turn 90*, run ahead 3 pads, and re-approach 90*	2-26	Gregory		
Back away from pad, turn 90*, run astern 3 pads, and re-approach 90*	2-26	Gregory		
Turn 180* keeping 200' from structure - both port & starboard	2-26	Gregory		
Turn 360* keeping 200' from structure - both port & starboard	2-26	Gregory		
Walk to port & starboard 1 pad length. Nose in and out 6 times	2-27	Gregory		
Touch down A/S another tug - bit to	2-27	Gregory		

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bit (5 times)	2-27	Gregory	
Run A/S another tug @ 5' off. 3 kts.	2-27	Gregory	
Run A/S another tug @ 5' off. 6 kts.	2-27	Gregory	
Run backwards in front of tug. 5 kts.	2-27	Gregory	

C. Maneuvering Light Boat With Working Line & Winch

Maneuver	Date	Tug	Comments	M/I's
Nose up to a bit, hang working line and stretch it out 100', then retrieve the line	4/16	Gregory		
Nose up to a bit, hang working line and stretch it out 100', then retrieve the line	4/16	Gregory		
Nose up to a bit, hang working line and stretch it out 100', then retrieve the line	4/16	Gregory		
Stretch out line to 150'. Work tug to port & starboard, keeping the line <u>tight</u> , 5 times in each direction. Return to a 90* and retrieve the line	4/20	Gregory		
Stretch out line to 150'. Work tug to port & starboard, keeping the line <u>slack</u> , 5 times in each direction. Return to a 90* and retrieve the line	4/20	Gregory		

D. Emergency Maneuver Training

Maneuver	Date	Tug	Comments	M/I's
Running with just one engine <u>ahead</u> , maintain course at varying speeds while heading up or down the channel.	4/6/22	Gregory		
Running with just one engine <u>astern</u> , maintain course at varying speeds while heading up or down the channel.	4/6/22	Gregory		
Operate the tug in the emergency steering mode at varying speeds while heading up or down the channel. Demonstrate the ability to make turns and steady up on a heading while in this mode.	4/28	Gregory		

E. Lateral Maneuver Check Off

In this module the Trainee must demonstrate their ability to walk around a stationary object (ie: another tug boat), while maintaining a 90* angle to the object. This needs to be completed all the way around the entire object while maintaining a constant 20' off the object. This will be executed revolving from both port and starboard directions.

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Comments: _____

Masters Initials: _____

Date Observed: ___/___/___

Section 3. Ship Assist Training

Evolution #1. Basic Ship Assist (Sailings)

During Basic Training, Trainees may only attempt evolutions that include the following elements. Training Master may assist or give advice at this stage.

- 1) Line up on forward hull chock (sunken bit). Trainee operates until the point of turn.
- 2) Line up on aft hull chock (sunken bit). Trainee operates until the point of turn.

Trainees must complete 5 proficient maneuvers of each element before advancing to the next evolution.

Element 1. Line up on forward hull chock

No.	Date	Tug	Comments	M/I's
1	4/16	Gregory	Cool Discoverer	[REDACTED]
2	4/29	Gregory	Adriano Knutsen	[REDACTED]
3	6/2	Aranas	Fukurokuju	[REDACTED]
4	6/9	Aranas	Gaslog Wellington	[REDACTED]
5	6/20	Portland	Cool Discoverer	[REDACTED]

Element 2. Line up on aft hull chock

No.	Date	Tug	Comments	M/I's
1	2/28	Gregory	Orion Sea	[REDACTED]
2	4/9	Gregory	Maris Energy	[REDACTED]
3	4/11	Gregory	Fukurokuju	[REDACTED]
4	4/20	Gregory	Gaslog Warsaw	[REDACTED]
5	4/25	Gregory	Gaslog Seattle	[REDACTED]

Comments: _____

Masters Initials: _____

Date: ___/___/___

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Evolution #2. Basic Ship Assist (Arrivals)

During Basic Training, Trainees may only attempt evolutions that include the following elements. Training Master may assist or give advice at this stage.

- 1) Line up on forward hull chock (sunken bit). Trainee operates until the point of turn.
- 2) Line up on aft hull chock (sunken bit). Trainee operates until the point of turn.

Trainees must complete 5 proficient maneuvers of each element before advancing to the next evolution.

Element 1. Line up on forward hull chock

No.	Date	Tug	Comments	M/I's
1	4/9	Gregory	Maria Energy	[REDACTED]
2	4/16	Gregory	Global Sealine	[REDACTED]
3	4/20	Gregory	Guslog Warsaw	[REDACTED]
4	6/1	Aransas	Fulkard Knutson	[REDACTED]
5	6/10	Aransas	Traiana Knutson	[REDACTED]

Element 2. Line up on aft hull chock

No.	Date	Tug	Comments	M/I's
1	4/27	Gregory	Adriano Knutson	[REDACTED]
2	4/30	Gregory	Stena Blue Sky	[REDACTED]
3	5/2	Gregory	Stena Crystal Sky	[REDACTED]
4	6/4	Aransas	Maria Energy	[REDACTED]
5	6/7	Aransas	Guslog Wellington	[REDACTED]

Comments: _____

Masters Initials: _____

Date: ___/___/___

Tractor Tug Training Program

Evolution #3. Basic Ship Assist (Sailings)

During Basic Training, Trainees may only attempt evolutions that include the following elements. Training Master may assist or give advice at this stage.

- 1) Line up on forward hull chock (sunken bit). Trainee operates until completion of job.
- 2) Line up on aft hull chock (sunken bit). Trainee operates until completion of job.

Trainees must complete 5 proficient maneuvers of each element before advancing to the next evolution.

Element 1. Line up on forward hull chock Pos 2 OB Full

No.	Date	Tug	Comments	M/I's
1	4-16	Gregory	Global Sealine	[REDACTED]
2	4-29	Gregory	Stena Blue Sky	[REDACTED]
3	6-2	Aransas	Fukurokuju	[REDACTED]
4	6-9	Aransas	Gaslog Wellington	[REDACTED]
5	6-20	Portland	Cool Discoverer	[REDACTED]

Element 2. Line up on aft hull chock Pos 3 OB Full

No.	Date	Tug	Comments	M/I's
1	4/20	Gregory	Methung Jane Elizabeth	[REDACTED]
2	4/25	Gregory	Gaslog Seattle	[REDACTED]
3	5/1	Gregory	Stena Blue Sky	[REDACTED]
4	5/2	Gregory	La Mancha Knutsen	[REDACTED]
5	6/1	Aransas	Adriano Knutsen	[REDACTED]

Comments: _____

Masters Initials: _____

Date: ___/___/___

Tractor Tug Training Program

Evolution #4. Basic Ship Assist (Arrivals)

During Basic Training, Trainees may only attempt evolutions that include the following elements. Training Master may assist or give advice at this stage.

- 1) Line up on forward hull chock (sunken bit). Trainee operates until completion of job.
- 2) Line up on aft hull chock (sunken bit). Trainee operates until completion of job.

Trainees must complete 5 proficient maneuvers of each element before advancing to the next evolution.

Element 1. Line up on forward hull chock

No.	Date	Tug	Comments	M/I's
1	4/20	Gregory	Gaslog Warsaw	
2	6/1	Aransas	Fukurokuju	
3	6/10	Aransas	Traiano Knutsen	
4	6/13	Aransas	Gaslog Winchester	
5	6/18	Portland	Shinshu Marie	

Element 2. Line up on aft hull chock

No.	Date	Tug	Comments	M/I's
1	4-27	Gregory	Adriano Knutsen	
2	5-1	Gregory	La Mancha Knutsen	
3	5-2	Gregory	Stena Crystal Sky	
4	6-4	Aransas	Maria Energy	
5	6-7	Aransas	Gaslog Wellington	

Comments: _____

Masters Initials: _____

Date: ___/___/___

Tractor Tug Training Program

Evolution #5. Intermediate Ship Assist (Arrivals)

During Intermediate Training, Trainees may only attempt evolutions that include the following elements. Training Master may assist or give advice at this stage.

- 1) Line up through bull nose (center lead, forward). Trainee operates until completion of job.
- 2) Line up on transom (center lead, aft). Trainee operates until completion of job.

Trainees must complete 5 proficient maneuvers of each element before advancing to the next evolution.

Element 1. Line up - Center Lead, Aft

Pos 4 IB

No.	Date	Tug	Comments	M/I's
1	6-3	Aransas	Castilla De Villalba	
2	6-15	Aransas	Diamond Gas Metropolis	
3	6-19	Portland	Celcius Charlotte	
4	6-24	Portland	Gaslog Warsaw	
5	6-28	Portland	BW Pavilion Leary	

Element 2. Line up - Center Lead, Forward

Pos 1 IB

No.	Date	Tug	Comments	M/I's
1	5-30	Aransas	Adriano Knutsen	
2	6-29	Portland	Orion Sea	
3	8-7	Portland	Katavotouja	
4				
5				

Comments: _____

Masters Initials: _____

Date: ___/___/___

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Evolution #6. Intermediate Ship Assist (Sailings)

During Intermediate Training, Trainees may only attempt evolutions that include the following elements. Training Master may assist or give advice at this stage.

- 1) Line up through bull nose (center lead, forward). Trainee operates until completion of job.
- 2) Line up on transom (center lead, aft). Trainee operates until completion of job.

Trainees must complete 5 proficient maneuvers of each element before advancing to the next evolution.

Element 1. Line up - Center Lead, Aft

Pos 4 OB

No.	Date	Tug	Comments	M/I's
1	6-4	Aransas	Castillo De Villalba	[REDACTED]
2	6-7	Aransas	T Energy	[REDACTED]
3	6-14	Aransas	Gaslog Winchester	[REDACTED]
4	6-25	Portland [REDACTED]	Gaslog Warsaw	[REDACTED]
5	7-2	Portland [REDACTED]	Celeins Canberra	[REDACTED]

Element 2. Line up - Center Lead, Forward

Pos 1 OB

No.	Date	Tug	Comments	M/I's
1	6-1	Aransas	Adriano Kautsen	[REDACTED]
2	6-23	Portland [REDACTED]	Cataluna Spirit	[REDACTED]
3	6-30	Portland [REDACTED]	Orian Sea	[REDACTED]
4				[REDACTED]
5				

Comments: _____

Tractor Tug Training Program

Masters Initials: _____

Date: ___/___/___

Evolution #7: Advanced Ship Assist

During the Advanced Training portion of this program the Trainee **must** demonstrate that he is completely proficient in all aspects of ship assist work and tug handling. This includes, but not limited to: a) winch operations, b) communications with the pilots, c) communications with deck crew, d) situational awareness. The sign off is only given if the Trainee can accomplish these tasks while completing the job from start to finish without any assistance or advice from the Training Master. Trainees must be signed off by at least 3 of the Training Masters. It is very important that all parties understand that by signing the Trainee off on this step that he is 100% proficient in ship assist work.

Element 1. Line up in hull chock, sunken bit, fwd. (3 Arrivals & 3 Sailings)

Pos 2

No.	Date	Tug	Comments	M/I's
1	6/13	Aransas	Gaslog Winchester	
2	6/18	Portland	Shinshu Maru	
3	6/22	Portland	Catalunya	
4	6/16	Portland	Diamond Gas Metropolis	
5	6/20	Portland	Cool Discoverer	
6	6/23	Portland	Catalunya Spirit	

Element 2. Line up in hull chock, sunken bit, aft. (3 Arrivals & 3 Sailings)

Pos 3

No.	Date	Tug	Comments	M/I's
1	6-7	Aransas	Flex Endeavour Gaslog Wellington	
2	6-26	Portland	Flex Endeavour	
3	8-4	Portland	Gaslog Galveston	
4	6-6	Aransas	T Energy	
5	6-27	Portland	Flex Endeavour	
6	8-5	Portland	Gaslog Galveston	

Element 3. Line up, center lead, aft. (3 Arrivals & 3 Sailings)

Pos 4

No.	Date	Tug	Comments	M/I's
1	6-24	Portland	Gaslog Warsaw	
2	6-28	Portland	BW Pavilion Becara	
3				

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OB {	4	6-7	Arcansas	T Energy	
	5	6-25	Portland	Gaslog Warsaw	
	6	7-2	Portland	Calcius Canberra	

Element 4. Line up, center lead, fwd. (3 Arrivals & 3 Sailings)

Page 1

No.	Date	Tug	Comments	M/I's	
OB {	1	6-29	Portland	Orion Sea	
	2	8-7	Portland	Entara Lanza	
	3				
OB {	4	6-23	Portland	Cataluna Spirit	
	5	6-30	Portland	Orion Sea	
	6				

Section 4. Final Sign Off

This will be the last and final step of the Tractor Tug Training Program. This step requires the signature of the General Manager of the tug division. It is recommended that the General Manager ride along with the Trainee until he is 100% satisfied that said Trainee is qualified as a Tractor Tug Captain. Once this step is completed, it qualifies the Trainee, but does not guaranty, a position as a Tractor Tug Captain.

General Manager Name: _____

General Manager Signature: _____ Date: ___/___/___