

Sea Trial Checklist

Free PM Templates & Documents for Shipyard Newbuild Projects · Pre-trial checks, trial agenda and sign-off record for a newbuild vessel

Project / Vessel Name	[Enter vessel name / hull no.]
Shipyard	[Enter yard name]
Trial Date & Sea Area	[Date] / [Sea area / trial ground]
Weather Limit for Trial	[e.g. Wind ≤ Beaufort 4, wave height ≤ 1.5 m]

1. Pre-Trial Checks

Complete all items below before departing the berth for sea trials. Any unchecked item must be closed out or formally accepted as a deviation by the Owner and Class before proceeding.

Safety	
☐	Life-saving appliances checked, tested and stowed correctly
☐	Fire-fighting systems tested and ready (pumps, hydrants, extinguishers)
☐	Emergency escape routes and muster stations clear and marked
☐	Crew safety briefing / toolbox talk completed for trial day
☐	Weather forecast reviewed and within agreed trial limits

Machinery	
☐	Main engine pre-start checks complete (oil, cooling water, fuel)
☐	Fuel, lube oil and cooling water levels confirmed sufficient for trial duration
☐	Steering gear tested at berth — port and starboard, main and auxiliary
☐	Bow / stern thruster(s) tested at berth
☐	Emergency generator tested and on automatic standby

Navigation & Communication	
☐	Navigation lights and shapes functional
☐	Radar / ECDIS / GPS operational and updated
☐	VHF and GMDSS equipment tested
☐	Whistle and sound signalling appliances tested
☐	Magnetic and gyro compass checked / calibrated

Documentation & Attendance	
■	Sea trial program issued to all parties in advance
■	Classification society surveyor attendance confirmed
■	Owner's representative attendance confirmed
■	Trial permit / port and pilotage clearance obtained
■	Draft survey / loading (stability) condition confirmed for trial

2. Sea Trial Agenda

#	Test / Maneuver	Condition	Acceptance Criteria	Duration	Result
1	Berth departure & maneuvering to open water	Calm conditions	Safe, controlled departure	30 min	
2	Speed trial (measured mile / GPS)	50 / 75 / 85 / 100% MCR	Meets contractual speed at each load	2 h	
3	Fuel consumption measurement	At trial speeds	Within guaranteed consumption figures	Concurrent	
4	Crash-stop trial (full ahead → full astern)	Calm sea state	Stopping distance & time within spec	30 min	
5	Turning circle trial (port & stbd, hard over)	Calm sea state	Turning diameter within spec	1 h	
6	Zig-zag maneuvering trial (10°/10°)	Calm sea state	Yaw-checking / overshoot within IMO criteria	1 h	
7	Anchor windlass & anchor drop / recovery test	At anchorage	Rated pull; chain runs freely; brake holds	1 h	
8	Steering gear test (main & auxiliary)	Underway	Full rudder angle achieved within required time	30 min	
9	Bow / stern thruster functional test	Low speed / stationary	Rated thrust achieved, no excessive vibration	30 min	
10	Endurance run at service speed	Extended run	Stable operation, no abnormal alarms	4–8 h	
11	Emergency generator & blackout recovery test	Underway	Auto-start & load transfer within required time	30 min	
12	Navigation & communication equipment test	Underway	All equipment functional per SOLAS	1 h	
13	Noise & vibration measurement	At service speed	Within contractual comfort limits	1 h	
14	Whistle, fire & general alarm test	Underway	Audible / functional throughout vessel	15 min	
15	Man-overboard / Williamson turn drill	Calm sea state	Vessel maneuvers back to MOB position	30 min	

3. Sign-Off

By signing below, the undersigned confirm that the sea trial was conducted per the agenda above and that results were recorded and found acceptable (or noted as exceptions in an attached remarks sheet).

Role	Name	Signature	Date
Master			
Chief Engineer			
Owner's Representative			
Shipyard Representative			
Classification Surveyor			