

INTERNATIONAL CERTIFICATE OF COMPETENCY 24M POWER & SAIL PRACTICAL ASSESSMENT – 2018



PRACTICAL / ORAL ASSESSMENT

FOR POWER ONLY CANDIDATES, PLEASE DISREGARD SECTION ON SAILS & SAIL HANDLING.

There is no formal practical assessment for the ICC 24 Meter Power &/or Sail Course, however, this practical assessment checklist is provided by IYT and should be completed throughout the course by the instructor/assessor. Note, however, this is highly recommended but not mandatory.

School Name: _____ Course Start Date: _____

Instructor Name (print): _____ Instructor Signature: _____

Task / Duty / Competence	Type in candidate names	Candidate #1	Candidate #2	Candidate #3	Candidate #4	Candidate #5
PERSONAL SAFETY EQUIPMENT						
Is able to:						
<ul style="list-style-type: none"> Name the personal safety equipment required onboard. 						
<ul style="list-style-type: none"> Properly don a lifejacket 						

Task / Duty / Competence	Candidate # or Initials / Comments Below	#1	#2	#3	#4	#5
<ul style="list-style-type: none"> Properly inflate an inflatable lifejacket 						
<ul style="list-style-type: none"> (for sail) clip a donned safety harness to a jackstay 						
Understands:						
<ul style="list-style-type: none"> How to care for personal safety equipment required onboard. 						
<ul style="list-style-type: none"> The types of personal flotation devices and attributes of each. 						
<ul style="list-style-type: none"> Horseshoe buoy, ring buoy and lifeslings and their uses. 						
<ul style="list-style-type: none"> Man overboard pole and its use. 						
<ul style="list-style-type: none"> EPIRB and SART and their uses. 						
BOAT SAFETY EQUIPMENT						
Is able to:						
<ul style="list-style-type: none"> Name the types of liferafts 						
<ul style="list-style-type: none"> Name the types of flares and which is best suited for various situations. 						
Is acquainted with:						
<ul style="list-style-type: none"> How to deploy a liferaft and when to deploy. 						
<ul style="list-style-type: none"> A hydrostatic release device 						
<ul style="list-style-type: none"> Fire extinguishers and what type is appropriate for different types of fires 						
<ul style="list-style-type: none"> A basic first aid kit and the contents. 						
<ul style="list-style-type: none"> The types of anchors and the seabed they are most suited for. 						
<ul style="list-style-type: none"> All other boat safety equipment required onboard such as watertight flashlight, air horns, radar reflectors, vhf radio, etc. 						
<ul style="list-style-type: none"> Manual and electric bilge pumps and how they work. 						
<ul style="list-style-type: none"> Sea anchors and drogues and their use. 						

Task / Duty / Competence	Candidate # or Initials / Comments Below	#1	#2	#3	#4	#5
Understands:						
• How to use a fire extinguisher and required maintenance.						
• How to use a radar reflector.						
• How a battery selector switch works.						
• The contents and necessity of a “ditch bag” or “abandon ship bag”						
VESSEL CHECKOUT-DOCUMENTATION, CHARTS, NAUTICAL PUBLICATIONS & FLAGS – EQUIPMENT & GENERAL						
Understands the significance of:						
• Registration/ships papers						
• Requirements for passports and visas and cruising papers						
• Insurance papers						
• Nautical qualifications						
• Crew lists and vessel logbooks						
• Equipment manuals						
• Nautical charts and publications						
Understands:						
• Tide tables						
• Symbols and abbreviations for nautical charts						
• List of lights						
• Collision regulations						
• Flags and flag etiquette, the registration flag, the courtesy flag, customs Q flag and diver down flags						

Task / Duty / Competence	Candidate # or Initials / Comments Below	#1	#2	#3	#4	#5
Understands the significance of:						
• Contents of tool kit						
• Engine spares						
• Fuel and ignition sources and the potential risks						
• A float plan						
Can demonstrate:						
• A hull check						
• An engine check						
• (for sail) rigging checks						
• How to check condition and operation of navigation lights & electronic equipment						
• A safety equipment check						
• Housekeeping items check (taps/faucets working, fresh water, propane supply stored in appropriate space, sewage holding tanks checked, heads flushing, ample food and water)						
• A dinghy check, if applicable						
• The procedure to depart a marina or dock (disconnect power and water lines, instructing passengers, etc..... as outlined in course materials)						
BASIC HANDLING SKILLS						
Understands the significance of:						
• Sail - How sails work						
• Sail - A sloop rig and sail plan						
• Sail - Points of sail and sailing terms						

Task / Duty / Competence	Candidate # or Initials / Comments Below	#1	#2	#3	#4	#5
• Sail - Schackles, Blocks and cleats: purpose of each						
• Sail - Types of sails						
Can demonstrate:						
• Sail – proper use of winches						
• Sail – sail a triangular course						
• Sail – sail a compass course						
• Sail – proper anchoring techniques						
• Sail – picking up a mooring buoy						
• Power – proper use of bow thrusters (if vessel equipped)						
• Power - Proper use of trim tabs						
• Power – high and low speed turns						
• Power – turning in a restricted space						
• Power – crash stops						
• Power – Williamson turn						
• Power – proper anchoring techniques						
• Power – picking up a mooring buoy						
BASIC ROPEWORK						
Can demonstrate:						
• A round turn and two half hitches						
• Tying a bowline						
• Tying a figure of eight						
• A rolling hitch						

Task / Duty / Competence	Candidate # or Initials / Comments Below	#1	#2	#3	#4	#5
• A sheet bend						
• A reef knot						
• A clove hitch						
• Securing to a cleat						
• Coiling a line						
Understands:						
• . Whipping and splicing						
REFUELING						
Can demonstrate:						
• Fueling a vessel.						
• Fueling a PWC, if applicable						
Understands the significance of:						
• Planning fuel requirements						
MAN-OVERBOARD PROCEDURES						
Can demonstrate:						
• All steps in sequence of the procedure for rescuing a person overboard using a buoyant heaving line.						
• All steps in sequence of the procedure for rescuing a person overboard using a life ring.						
Understands the significance of:						
• What to consider when deciding which procedure for man-overboard is best and why they should be taken into consideration.						

Task / Duty / Competence	Candidate # or Initials / Comments Below	#1	#2	#3	#4	#5
<ul style="list-style-type: none"> The various types of cold water survival gear and their uses. 						
CAPSIZING, SWAMPING AND SINKING						
Understands:						
<ul style="list-style-type: none"> Capsizing and the causes. 						
<ul style="list-style-type: none"> Swamping and the causes. 						
<ul style="list-style-type: none"> Sinking and the causes. 						
<ul style="list-style-type: none"> Grounding and the causes. 						
<ul style="list-style-type: none"> The importance of getting a marine weather forecast before leaving shore. 						
ANCHORS, ANCHORING AND RUNNING AGROUND						
Understands:						
<ul style="list-style-type: none"> Rode and what it can be comprised of 						
<ul style="list-style-type: none"> Scope and the required amount based on depth of water and whether chain or chain and rode. 						
<ul style="list-style-type: none"> The uses of anchors (breakdown, severe weather, non-emergencies) 						
<ul style="list-style-type: none"> Swing and who has the 'right of swing'. 						
<ul style="list-style-type: none"> How to lay a second anchor and in what areas and for which vessels it may be appropriate. 						
<ul style="list-style-type: none"> Kedging 						
<ul style="list-style-type: none"> How to retrieve a fouled anchor 						
<ul style="list-style-type: none"> The problems associated with running aground and solutions. 						
Can demonstrate:						
<ul style="list-style-type: none"> All steps in sequence of the procedure for setting an anchor. 						

Task / Duty / Competence	Candidate # or Initials / Comments Below	#1	#2	#3	#4	#5
<ul style="list-style-type: none"> All steps in sequence of the procedure for beach anchoring. (if appropriate for vessel) 						
VHF-SRC – complete if candidate does not hold recognised VHF certificate						
Has clear understanding of:						
<ul style="list-style-type: none"> The use for 6 international channels. 						
<ul style="list-style-type: none"> Simplex and duplex transmissions. 						
<ul style="list-style-type: none"> Which channel is for digital data communications only. 						
<ul style="list-style-type: none"> Which channel is reserved for international distress, urgency and safety. 						
<ul style="list-style-type: none"> EPIRB systems and how to operate EPIRB equipment. 						
<ul style="list-style-type: none"> SARTs and how to operate them. 						
<ul style="list-style-type: none"> High Gain and Unity Gain Antenna and the vessels they are suitable for. 						
<ul style="list-style-type: none"> The purpose of the DSC Distress button. 						
Can demonstrate:						
<ul style="list-style-type: none"> How to control squelch. 						
<ul style="list-style-type: none"> How to operate a DSC Enabled VHF Radio. 						
<ul style="list-style-type: none"> The procedure for transmitting Securite and when to do so. 						
<ul style="list-style-type: none"> The procedure for transmitting a Pan Pan and when to do so. 						
<ul style="list-style-type: none"> The procedure for transmitting a May-Day and when to do so. 						
<ul style="list-style-type: none"> The procedure for transmitting a May-Day relay and when to do so. 						
Can name/recite:						
<ul style="list-style-type: none"> The 6 international channels. 						

Task / Duty / Competence	Candidate # or Initials / Comments Below	#1	#2	#3	#4	#5
<ul style="list-style-type: none"> The phonetic alphabet from A - Z. 						
SMALL POWERBOATS & RIGID INFLATABLE BOATS (RIB)						
Can describe:						
<ul style="list-style-type: none"> The advantages & disadvantages of different types of dinghys. 						
<ul style="list-style-type: none"> The different types of motors and generally how they work. 						
<ul style="list-style-type: none"> Ventilation, cavitation, steering and propellers. 						
<ul style="list-style-type: none"> The common reasons an outboard engine may not start. 						
<ul style="list-style-type: none"> A crane launch 						
<ul style="list-style-type: none"> A halyard launch 						
<ul style="list-style-type: none"> A stern launch 						
<ul style="list-style-type: none"> How weather conditions, manpower and maneuverability of a boat will affect picking up a tow. 						
Can demonstrate:						
<ul style="list-style-type: none"> How to start and stop the engine. 						
<ul style="list-style-type: none"> Engine pre-start checks. 						
<ul style="list-style-type: none"> Beaching a dinghy. 						
<ul style="list-style-type: none"> Safety preparation prior to dinghy launch (bungs in place, trailer lights removed, etc.) 						
<ul style="list-style-type: none"> A trailer launch (where applicable) 						
<ul style="list-style-type: none"> A trailer recovery (where applicable) 						
<ul style="list-style-type: none"> A crash stop 						
<ul style="list-style-type: none"> Picking up a tow 						

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BOAT HANDLING UNDER POWER						
Can describe:						
<ul style="list-style-type: none"> • The effect of the propeller on a vessel’s maneuvering ability. 						
<ul style="list-style-type: none"> • The effects of wind, tide and current on a vessel’s maneuvering ability. 						
<ul style="list-style-type: none"> • How to approach a dock with the wind toward the dock. 						
<ul style="list-style-type: none"> • How to approach a dock with the wind off behind dock 						
<ul style="list-style-type: none"> • How to depart from dock with crosswind. 						
<ul style="list-style-type: none"> • How to depart from dock with wind blowing onto dock. 						
<ul style="list-style-type: none"> • How to depart from dock with wind blowing off dock. 						
<ul style="list-style-type: none"> • Multiple engines and their effect on the vessel. 						
<ul style="list-style-type: none"> • What must be considered during heavy weather preparations. 						
<ul style="list-style-type: none"> • How and why to use trim tabs. 						
<ul style="list-style-type: none"> • How to drive a vessel in heavy weather – upwind, breaking beam seas and following seas. 						
Can demonstrate:						
<ul style="list-style-type: none"> • Securing to a dock using bow and stern lines. 						
<ul style="list-style-type: none"> • Securing to a dock using spring lines. 						
<ul style="list-style-type: none"> • Coming alongside a wharf or dock and docking. 						
<ul style="list-style-type: none"> • Departing a dock and clearing. 						
<ul style="list-style-type: none"> • Getting the vessel on “the plane”. 						
<ul style="list-style-type: none"> • A high speed turn. 						
<ul style="list-style-type: none"> • Picking up a mooring buoy. 						

Task / Duty / Competence	Candidate # or Initials / Comments Below	#1	#2	#3	#4	#5
BASIC METEOROLOGY						
Can explain:						
<ul style="list-style-type: none"> <li data-bbox="157 342 428 370">• The Coriolis Effect. 						
<ul style="list-style-type: none"> <li data-bbox="157 396 722 423">• What happens when a front passes through 						
<ul style="list-style-type: none"> <li data-bbox="157 449 905 509">• The Beaufort Wind Scale and how many 'forces' are on the scale. 						
SHORT PASSAGES – HEAVY WEATHER, RESTRICTED VISIBILITY & NEGOTIATING HARBOUR ENTRANCES						
Can explain:						
<ul style="list-style-type: none"> <li data-bbox="157 656 842 683">• Preparations that should be made for heavy weather. 						
<ul style="list-style-type: none"> <li data-bbox="157 709 894 769">• The preparations to be made in case of restricted visibility due to fog. 						
<ul style="list-style-type: none"> <li data-bbox="157 786 816 813">• Steps to take when negotiating a harbour entrance. 						
Understands:						
<ul style="list-style-type: none"> <li data-bbox="157 893 863 953">• That a leeshore can be hazardous in heavy weather and many times it is best to stay offshore. 						
<ul style="list-style-type: none"> <li data-bbox="157 969 905 1094">• The procedure for heavy weather tactics on sailboat (tack leaving foresail cleated, when it backs the helm is brought to leeward and secured. Adjusting the mainsails according to size of foresail....etc.) 						
<ul style="list-style-type: none"> <li data-bbox="157 1110 831 1138">• Sea anchors, why to use and how they are deployed. 						
<ul style="list-style-type: none"> <li data-bbox="157 1164 785 1192">• Drogues, why to use and how they are deployed. 						
<ul style="list-style-type: none"> <li data-bbox="157 1218 772 1245">• What to consider when creating a passage plan. 						
COMPASSES AND MAGNETISM						
Can explain:						

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<ul style="list-style-type: none"> Compass error, variation and deviation. 						
<ul style="list-style-type: none"> The causes of deviation and when to check for it. 						
Can describe:						
<ul style="list-style-type: none"> That navigation has three compass bearings, true, magnetic, and compass. 						
<ul style="list-style-type: none"> The difference between True North and Magnetic North. 						
<ul style="list-style-type: none"> Applying variation. 						
CHARTS, CHARTWORK & BASIC NAVIGATION						
Can describe:						
<ul style="list-style-type: none"> The general layout of paper charts and the information they contain. 						
<ul style="list-style-type: none"> Small craft charts. 						
<ul style="list-style-type: none"> That is imperative to have charts appropriate to the voyage you are to undertake and where to obtain them. 						
<ul style="list-style-type: none"> The importance of only using suitable pencils. 						
<ul style="list-style-type: none"> That all charts do not have the same 'scale' and great care must be taken when moving from one chart to another to avoid miscalculation. 						
<ul style="list-style-type: none"> How to determine the 'course to steer'. 						
<ul style="list-style-type: none"> Tides and currents. 						
<ul style="list-style-type: none"> How wind, tides and currents will effect steerage of vessel. 						
Can demonstrate:						
<ul style="list-style-type: none"> Taking a compass bearing and plot a position by bearing and distance from a known landmark. 						
<ul style="list-style-type: none"> Plotting a running fix. 						
<ul style="list-style-type: none"> Dead reckoning. 						

Task / Duty / Competence	Candidate # or Initials / Comments Below	#1	#2	#3	#4	#5
<ul style="list-style-type: none"> Estimated position. 						
TIDES & CURRENTS						
An understanding of:						
<ul style="list-style-type: none"> The causes of tides and currents. 						
<ul style="list-style-type: none"> Neap tides and spring tides. 						
<ul style="list-style-type: none"> Tidal height definitions. 						
<ul style="list-style-type: none"> Tidal current charts. 						
<ul style="list-style-type: none"> Tidal diamonds on British Admiralty Charts. 						
<ul style="list-style-type: none"> Neap and spring rates. 						
Can demonstrate:						
<ul style="list-style-type: none"> Calculating the required height of tide. 						
Can describe:						
<ul style="list-style-type: none"> The rule of twelfths. 						
<ul style="list-style-type: none"> Flood stream, ebb stream and slack water. 						
<ul style="list-style-type: none"> The cardinal buoyage system including the color, direction of triangle, light and flash for each mark (north, south, east and west) 						
BUOYAGE						
Can describe:						
<ul style="list-style-type: none"> The difference between IALA A and IALA B, regions and color/shape of marks. 						
Can identify:						
<ul style="list-style-type: none"> Isolated danger marks, safe water marks and special marks. 						

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COLLISION REGULATIONS						
Has demonstrated a knowledge of:						
<ul style="list-style-type: none"> • General definitions for the purpose of the 'rules'. 						
<ul style="list-style-type: none"> • To whom the 'colregs' apply and where appropriate authorities have the right to make special rules 						
<ul style="list-style-type: none"> • Action to take to avoid collision. 						
<ul style="list-style-type: none"> • The difference between a stand on and give way vessel. 						
<ul style="list-style-type: none"> • What to do if two vessels meet head on. 						
<ul style="list-style-type: none"> • The sound signal to give if moving to starboard, port, astern, overtaking and I do not understand your intentions. 						
Understands:						
<ul style="list-style-type: none"> • There are different regulations for inland waterway, rivers, lakes and canals. 						
<ul style="list-style-type: none"> • What a traffic separation scheme is and how you should cross it. 						
<ul style="list-style-type: none"> • Conduct in restricted visibility. 						
<ul style="list-style-type: none"> • The colors of starboard, port, stern, bow and masthead lights. 						
<ul style="list-style-type: none"> • What shape a vessel would display at anchor. 						
<ul style="list-style-type: none"> • What shape a vessel would display if not under command. 						
<ul style="list-style-type: none"> • What shape a vessel would display if restricted in ability to maneuver. 						
<ul style="list-style-type: none"> • What shape a vessel would display if aground. 						
<ul style="list-style-type: none"> • What shape a vessel would display if constrained by draft. 						
<ul style="list-style-type: none"> • The color and shape of the A flag and what it signifies. 						

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NAVIGATION LIGHTS						
Understands:						
<ul style="list-style-type: none"> When lights must be exhibited. 						
<ul style="list-style-type: none"> The three factors that require specific navigation lights (size, power or sail, underway or anchored). 						
<ul style="list-style-type: none"> The characteristics and arcs of visibility of masthead lights, sidelights, sternlights, towing lights, all-round white lights. 						
Can state the lights required for:						
<ul style="list-style-type: none"> Powerboats under 12M 						
<ul style="list-style-type: none"> Powerboats from 12M to under 50M 						
<ul style="list-style-type: none"> Sailboats under 7M 						
<ul style="list-style-type: none"> Sailboats from 7M to under 20M 						
<ul style="list-style-type: none"> Sailboats 20M and over 						
<ul style="list-style-type: none"> Human powered boats 						
<ul style="list-style-type: none"> Boats at anchor 						
BASIC FIRST AID						
Can describe:						
<ul style="list-style-type: none"> Hypothermia and the cause. 						
<ul style="list-style-type: none"> What a basic first aid kit should be comprised of. 						
<ul style="list-style-type: none"> How to treat cuts, stings and burns. 						

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<ul style="list-style-type: none"> • How to control bleeding. 						
<ul style="list-style-type: none"> • The signs of shock and the treatment. 						
<ul style="list-style-type: none"> • What a heart attack is and the possible signs. 						
<ul style="list-style-type: none"> • Signs of stroke and what you should do if suspected. 						
<ul style="list-style-type: none"> • Actions to take to aid drowning or choking victims. 						
<ul style="list-style-type: none"> • How to treat seasickness. 						
<ul style="list-style-type: none"> • Carbon monoxide poisoning and how to treat it. 						
RESPONSIBILITIES OF THE SKIPPER/CAPTAIN						
Can describe:						
<ul style="list-style-type: none"> • Elements of common courtesy. 						
<ul style="list-style-type: none"> • What the crew are responsible for. 						
<ul style="list-style-type: none"> • Components for 'duty of care'. 						

Instructor/Assessor comments on course or notes regarding candidates: