



Student Handbook

NZQA / NCEA Level 2

Dinghy - Learn to Sail Level 1 & 2 Keelboat Sailing – Level 1 & 2





October 2014



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Welcome to Yachting New Zealand's Learn to Sail Programme!

QUALITY ASSURANCE

The purpose of this documentation is to ensure that a quality assurance system is in place to complement the competency based learning elements of Yachting New Zealand's (YNZ's) Learn to Sail programme. Please read and familiarise yourself with it. Competency against these unit standards can be credited towards the National Certificate in Educational Achievement (NCEA) – see REPORTING CREDITS TOWARDS NCEA (Page 3)

TERMINOLOGY

Learn to Sail (Dinghy) Coach	A <u>currently qualified</u> Yachting New Zealand Learn to Sail (Dinghy) Coach.
Keelboat Coach	A <u>currently qualified</u> Yachting New Zealand Sail Keelboat Coach specialising in keelboat sailing.
Evidence Verifier	A person, usually a Coach, trained/experienced in gathering and verifying evidence of learner ability to competently perform the skills learned throughout this programme.
YNZ National Assessor	A person appointed by Yachting New Zealand that has undergone SKILLS ACTIVE AOTEAROA assessor training and is a SKILLS ACTIVE AOTEAROA registered assessor with permission and responsibility for assessment of yachting unit standards.

COURSE INFORMATION

Contained in this handbook is a brief description of the course content of each unit. As you work through the Yachting New Zealand logbooks and your instructor has observed you demonstrating the various skills and knowledge required make sure that your instructor initials the 'complete' box for each module in the checklist at the back of the YNZ logbook. This will ensure that you and your instructor are both keeping track of where you are at in the programme.

FIELD TESTS

Most of the activities you will be asked to demonstrate are included in the **field tests**. There is a section in this handbook which explains what is involved for each field test. Please note that depending on the type of boat you are learning to sail in (i.e. dinghy vs. keel boat), some components of the field tests designed to observe competency may not be relevant. All field tests relevant to the boat class **must** be completed successfully for you to achieve the YNZ Learn to Sail certificate.

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CERTIFICATES

Yachting New Zealand 'Learn to Sail' certificates will be issued on behalf of Yachting New Zealand by your Coach on the completion of the entire Learn to Sail syllabus for either dinghies or keelboats. You are only entitled to these certificates if you have been taught by a qualified Yachting New Zealand Club or Seamanship Instructor.

Please ensure that you provide your Coach / Instructor with your full name, address, date of birth and National Student Number.

REPORTING CREDITS TOWARDS NCEA:

Credits for completed unit standards can be credited towards NCEA for secondary school students. In order to do this evidence of completed Units must be presented to your school in order to have the credits matched with your NCEA record.

COST

The cost of taking this course will be determined in two ways.

1) There will be the cost of the classes delivered by a Club / Training Organisation. This will vary from place to place and should be negotiated between you or your school and the Club, Sailing School or other organisation which will be supplying the Instruction.

2) There will be a cost of having your achievements assessed.

If there is not a prior arrangement between YNZ and your school or provider as to how the credit report assessment will be paid, you must fill in a payment form (which shall contain credit card details or be accompanied by a cheque). This form will be sent in to Yachting New Zealand by the Club / Training Organisation with Form C. (A copy of the payment form is included in the back of this handbook and the form is also available for downloading off the Yachting New Zealand website at http://www.yachtingnz.org.nz/learn-to-sail/school-programs/ncea)

If a your school or provider has agreed to pay Yachting New Zealand directly on your behalf on receipt of the credit report from an Instructor Yachting New Zealand will invoice the school or provider directly.

The Cost

The cost of assessment of the credit report is \$7.00 per credit + GST

This includes SKILLS ACTIVE AOTEAROA'S charge for reporting the credits to NZQA and for the assessor's costs. It will also include a Yachting New Zealand certificate if the course has been delivered by a Yachting New Zealand club or sailing school.

i.e. Unit 21929 = 2 Credits Cost is 2 x \$7.0 = \$14.00 + GST per student

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NSN NUMBER

If you do not have a NSN Number NZQA will need to assign you one. This may incur a one off fee and may need to be included in your payment to Yachting New Zealand.

COST OF RESOURCES

The costs of various publications you may need are set out on the Yachting New Zealand website under "Learn to sail" then "School Programmes" "NZQA". Under "NZQA Documents" you will find an order form.

Appeal Process for Student

You have a right to appeal an assessment decision



For further information or assistance please contact

Andrew Clouston Participation and Development Manager Yachting New Zealand Email <u>andrew@yachtingnz.org.nz</u>





Make Safety Preparations for Sailing a Dinghy

Course Information

Number	Title	Level	Credits
21929	Make safety preparations for sailing a dinghy	2	2

A course in which you will learn the safety features of a sailing dinghy and some safe practices when sailing

You will be assessed during the course to record your knowledge of safety features of a sailing dinghy and of various safety procedures involved with going sailing. The assessment will occur during an 'onshore' sessions during which you will be expected to answer a number of questions relative to the type of boat you are using, as well as other general safety related questions. This may also involve written activity sheets and checklists

The standard of competency required to achieve this standard is to be very conversant with the terminology used and to be very familiar with the various safety functions of the boat and procedures. You will be assessed relative to the equipment on the boat you are using and the procedures relative to sailing dinghies.

You will be required to plan a short sailing trip of up to 2 hours and complete the following tasks-:

- Identify the buoyancy features of a boat and how to maintain their integrity.
- Identify the safety features of the boat.
- Demonstrate the appropriate choice of clothing for the weather conditions.
- Identifies PFD's, (Personal Flotation Devices) buoyany aids and life jackets and demonstrate their correct fit and use
- Plans a sailing trip of up to 2 hours considering the wind, tide and course and including sail selection & equipment.
- Prepare a trip report for the shore personnel.



Task	Evidence	Judgment
 Identify the buoyancy features of a boat and how to maintain their condition. 	Student identifies buoyancy features: - Buoyancy bags. - Securing straps. - Built in buoyancy. - Access hatches. - Bungs Student checks: - securing-straps are in good condition. - built in buoyancy is less likely to leak. - Student cleans seal around access hatches.	Student correctly identifies the buoyancy system used, correctly performs safety checks, and cleans access hatches efficiently.
2.0 Identify 5 or more safety features of the sailing dinghy being used. Demonstrate how they are fitted and used.	Student demonstrates knowledge of at least 5 safety features on his / her sailing dinghy.	At least 5 safety features are identified and correctly fitted and used.
2.1 Painter	Student ensures painter is attached to a strong point, or other rope is made available when towing.	Painter or other rope is attached securely, with correct knot, to appropriate strong point of boat.
2.2 Mast Restraint	The student ensures the mast is retained in boat in the event of a capsize. e.g. The stays may hold it or some other mechanical mechanism may be used.	Student correctly demonstrates method for retaining mast, appropriate to the class of the boat.
2.3 Centreboard Restraint	Student ensures centerboard will be restrained in the event of a capsize.	Student correctly demonstrates system for restraining centerboard, as appropriate for the class of the boat.
2.4 Bailer (As applicable)	Student ensures the bailer, if applicable, is tied onto the boat with a line long enough so that water can be bailed from both sides.	Student demonstrates the effective use of the bailer as applicable to the class of boat sailed.
2.5 Sheets and limiting knots	Student ties a limiting knot with figure 8 in the sheets to limit action as appropriate.	Student ties a figure 8 knot in the sheets to limit action as appropriate.
2.6 Rudder & Tiller Restraint	Student fits rudder and tiller with restraints in place.	Rudder and tiller restraints working effectively so that rudder does not fall off during capsize, tiller does not part from rudder, unless required.
 Demonstrate the requirements and use of personal safety items for sailing a dinghy. 		



		~
3.1 Clothing etc	Student dresses as appropriate for the class of dinghy and the weather conditions. Clothing might include Parka,	Student's selection of clothing is appropriate for prevailing weather conditions and class of dinghy sailed.
	Wetsuit, Thermals, Woolen jumper, hat, sun cream, sailing gloves, boots, sunglasses, shorts, rash vest.	
	Jewelry should not be worn (small earrings excepted). Long hair should be tied back.	
	Full water bottle on board.	
3.2 PFD's –	Student wears a correctly	Student selects lifejacket or
Personal Flotation Devices:	fitting PFD, (lifejacket or buoyancy aid) and explains	buoyancy aid and ensures it is correctly fitted.
Life Jackets & Buoyancy Aids	the difference.A lifejacket floats the wearer on their back; a buoyancy aid does not.	The right size does not easily come off if the student lifts their arms up in the water.
	Life jackets are not suitable for dinghy sailing. Student knows the rules re the wearing of PFDs	Student makes sure PFD is in good repair
4. Student plans a sailing	Plan a sailing trip taking into	
trip of up to 2 hours	account the time available,	
duration	tide, weather conditions &	
A 1 Student accessos	Safety awareness.	Student identifies suitable
4. 1. Student assesses	and duration of sailing trip of	location and duration of trin
conditions	up to 2 hours duration considering weather and tide conditions, direction and distance.	taking into account weather and tidal considerations
4.2 Student identifies correct sails for the trip	Student identifies suitable sails.	Student chooses correct sails for wind conditions.
4.3 Checklists	Student lists and organizes additional considerations e.g clothing, food, drink, first aid and communication options.	The items selected are appropriate for duration of the trip, considering weather and class of dinghy.
4.4 Trip Report	Student advises person ashore of intended plans.	Student correctly advises person ashore of intended plans.



Make Safety Preparations for Sailing a Keelboat

Course Information

Number	Title	Level	Credits
21930	Make safety preparations for sailing a keelboat	2	2

A course in which you learn the safety features of a sailing dinghy or keelboat, and some safe practices when sailing

You will be assessed towards the end of the course to record your knowledge of safety features of a sailing dinghy or keelboat and of various safety procedures involved with going sailing. The assessment will occur during an 'onshore or at dock' session. During this you will be expected to answer a number of questions relative to the type of boat you are using, as well as other general safety related questions.

The standard of competency required to achieve this standard is to be very conversant with the terminology used, to be very familiar with the various safety functions of the boat and procedures. You will be assessed relative to the equipment on the boat you are using and the procedures relative to either sailing dinghies or keelboats as appropriate.

You will be required to demonstrate your knowledge of the following-:

- Hazards on board a keelboat
- Appropriate and adequate clothing and equipment.
- Location and use of safety equipment –Harnesses, Life Jackets, Buoyancy aids, First Aid, Flares, Fire Extinguishers.
- Safe practices using boat's equipment Gas, Centre board controls.
- Correct Battery Protocols,
- The engine and its cooling system, fuelling, starting & stopping.
- Safe use of winches and cleats.
- Location and operation of emergency pump.
- The navigation lights on other vessels.
- Emergency signals.
- Plan a sailing trip of up to 12 hours duration.



Task	Evidence	Judgment
1. Demonstrate knowledge of the safety hazards on the boat.	Student identifies – slippery decks, sharp objects, objects which might catch fingers, hair or clothing – heavily loaded ropes – low boom.	Student correctly identifies at least 5 danger areas on the boat.
2. The student demonstrates the use of safety items needed in a keelboat.	Simulate use of personal safety equipment and explain the appropriate purpose of each.	
2.1 Demonstrate appropriate choice and use of clothing and equipment.	Student dresses for sailing. Clothing might include Wet weather gear, Wetsuit, Thermals, Woolen jumper, hat, sun cream, sailing gloves, boots, (no jandals), sunglasses, shorts, rash vest.	Student's selection of clothing is appropriate for prevailing weather conditions.
	Jewelry should not be worn (small earrings excepted). Long hair should be tied back. Sun cream is applied A full water bottle taken on	Student takes correct actions to avoid catching hair, dehydration, sun and wind burn.
2.2. Safety Harnesses	Student wears safety harness, correctly adjusted for body size. Harness is attached only to 'Fixed' points on the boat and is able to be released from the wearer's end of the tether.	Student demonstrates correct use of safety harness and identifies suitable attachment points on boat.
2.3 PFD's –Personal Flotation Devices – Life Jackets & Buoyancy Aids	Student wears correctly fitting lifejacket or buoyancy aid and explains the difference and when to use them. A lifejacket floats wearer on their back; a buoyancy aid does not. Life jacket is best used when just needing to stay afloat. Student is aware of rules governing the wearing of PFD's.	Student correctly explains difference between lifejacket and buoyancy aid and their usage. Student selects correct sized lifejacket or buoyancy aid and has fitted it correctly. The right size does not easily come off if the student lifts their arms up in the water. The student knows the Rules
2.4 Flares	Student identifies where flares are stowed. Student describes a variety of types of flare and explains their purpose. - Red parachute - attract attention well out to sea	Student gives examples of different types of flares on board and describes the circumstances in which each would be used."
	- Red handheld – pinpoint	the flares are kept.



	position. - White handheld – use in	Student explains possible risks when using.
	emergency when unable to give way to larger vessel.	Hand Held Flares can set fire to PFD's, sails and other
	 Orange smoke – daytime pin point position. 	equipment in close proximity
	Student is aware of dangers when using flares	
2.5 Fire Extinguishers	Studentlocatesanddescribes a variety of typesof fire extinguishers and theuse for each type on board. <u>Hose</u> – wood, paper, textiles,plastic.Knows how to usepump & fittings <u>Water filled</u> - wood, paper,textiles, plastic. <u>Fire blanket</u> - wood, paper,textiles, plastic, flammableliquids. <u>Multipurpose</u> - wood, paper,textiles, plastic, flammableliquids. <u>Dry powder-</u> Flammable	Student identifies where fire extinguishers are stowed in the boat and correctly explains the appropriate use of the extinguishers on board. Student identifies how the hose can be used.
	<u>Foam –</u> Flammable liquids	
	<u>CO2 –</u> Flammable liquids.	
	<u>Water Bucket</u> – wood, paper, textiles, plastic.	
3. Explain proper care and use of gas appliances.	Student explains the proper care and use of gas	Student correctly explains the procedures for use of gas
(If applicable to boat sailed.)	appliances. E.g. Gas bottles should always be turned off when not in use. Appliances should be turned off when not in use. Appliances should be kept clean and free of flammable items. Flammable materials should not be stored near gas appliances.	appliances. Student demonstrates correct care and stowage of appliances.
4. Locate the First Aid Kit and Life rings and stow	Student locates First Aid Kit and Life ring(s) and places	Student locates first Aid Kit and Life ring(s) and correctly
ready for easy access.	be reached in an emergency.	accessibility.
5. Explain proper care and	Student explains proper care	Student correctly explains
maintenance of ships	and maintenance of batteries, including the	procedures for the care and



batteries.	charging process (alternator or generator).	use of the batteries.
NOTE: It may be necessary		
to demonstrate onshore or	E.g. Batteries may be sealed	
on or around a keelboat	or may need maintenance.	
that does have batteries.	Batteries should be isolated	
	when boat is not in use.	
6. Operate lifting	Student operates the	Student correctly raises and
centreboard (if fitted)	centerboard, using a suitable	lowers centreboard in a safe
from 'fully locked up' to	mechanical system.	manner, using correct stance
'fully locked down'.	Locking systems are engaged	to avoid injury.
	LOCKING Systems are engaged	Ctudent compathy on social
(If applicable to the boat	when not being operated.	Student correctly engages
sailed.)		locking systems.
7. Simulate the process for	Student follows procedures	Student correctly
fueling the engine.	for fueling the engine.	demonstrates a safe process
	E g Add 2 stroke oil to fuel if	for refueling the engine.
Take appropriate care of	required	Students correctly
fuel to avoid spillage.	Fill fuel tanks without	demonstrate how the fuel is
Stow re-fuelling	chillago using funnal	isolated when engine is not
equipment safely.	Spinage using runnel.	
	when engine is not in use	in use.
(Systems will vary between	Stow fuel care cafely	Student stows fuel cans
out-board & inboard	Stow fuel carls safety.	away from heat and secure
motors.)	Wipe down any spillages.	against falling.
		Students maintain clean
		working space around
		motor.
8. Explain how the engine is	Student explains how the	Student correctly explains
cooled and how to check	engine is cooled.	how the boats cooling
for efficient operation	E.g. Engines may be air	system works, how, if
and leaks.	cooled or cooled by fresh or	appropriate, the cooling
Demonstrate 'shut down'	salt water systems	system is turned on / off,
procedure.		and correctly demonstrates
	Student checks for leaks.	how to check the cooling
	Student explains the process	system is working and not
(Actions will vary between	for checking it is working.	leaking.
Outboard and Inboard	Student chute down cooling	Student is aware of the
motors.)	suctom when out of use	warning signals for the
	system when out of use.	motor – sound or light- and
	Student understands the	reacts correctly.
	warning signals	-
9. Demonstrate how to	Student safely operates	The student correctly
operate a selection of	winches and cleats	operates the winches and
winches and cleats.	associated with halyards,	cleats the ropes without
	mainsheet, jib sheet and	slippage, and in a safe
	other sail controls so that	manner.
	ropes do not slip or jamb.	
10. Demonstrate how to use	Student identifies the	Student identifies where the
the Emergency Pump.	location of the emergency	pump is located and
	numn and demonstrates its	correctly demonstrates how
i i i i i i i i i i i i i i i i i i i	pump, and acmonstrates its	
	operation, including setting	it is used.
	operation, including setting it up, as appropriate for the	it is used.
	operation, including setting it up, as appropriate for the class of boat sailed.	it is used.



lights on selected	navigation light patterns on:	lights.
vessels.	A yacht - red and green sidelights and white stern light.	
	A small motor boat – white all round light.	
	A large boat – red and green sidelights, a white stern light and a white masthead light.	
	A tug with a tow - red and green sidelights with 2 white lights on the mast.	
12. Student Demonstrates Emergency Procedures:		
12.1 Perform emergency signals – both by hand and radio.	Student knows the radio emergencies channels and demonstrates a "Mayday" call on radio – "Mayday Mayday Mayday this is the yacht ??? x 3 – message"	Student uses correct radio procedure to make call. Student understands why VHF if preferable to a cell phone for emergency calls.
	Student demonstrates emergency hand signals, – repeatedly raising and lowering arms extended at sides.	Radio channels monitored 24/7. Student demonstrates correct emergency hand signals.
12.2 Use of Cell phones	Range may be limited. VHF is monitored at all times	Student explains safe storage of VHF and cell phones.
13. Plan a Sailing Trip of up to 12 hours duration.	Plan a sailing trip taking into account the time available, tide, weather conditions &	
	safety awareness.	
13.1 Plan a daytime sailing trip of up to 12 hours.	safety awareness. Student obtains weather & tidal information & chooses a destination which affords sheltered & safe anchorage	Student assesses conditions and chooses a suitable and achievable destination.
13.1 Plan a daytime sailing trip of up to 12 hours. 13.2 The Course details	safety awareness. Student obtains weather & tidal information & chooses a destination which affords sheltered & safe anchorage Student plots intended route on chart & identifies possible safety hazards including rocks, shallows, potential bad wave conditions, excessive or light wind conditions.	Student assesses conditions and chooses a suitable and achievable destination. Student plots a course avoiding dangers and unpleasant conditions.
13.1 Plan a daytime sailing trip of up to 12 hours. 13.2 The Course details 13.3 Checklists	safety awareness. Student obtains weather & tidal information & chooses a destination which affords sheltered & safe anchorage Student plots intended route on chart & identifies possible safety hazards including rocks, shallows, potential bad wave conditions, excessive or light wind conditions. Student lists and organizes additional considerations including suitable food, clothing, drink, first aid & communication options for extent of trip.	Student assesses conditions and chooses a suitable and achievable destination. Student plots a course avoiding dangers and unpleasant conditions. Student prepares appropriate list of provisions

	Yachting New Zealand
including destination & estimated time of arrival.	



Demonstrate Knowledge of the Basic Principles of Sailing

Course Information

Number	Title	Level	Credits
21931	Demonstrate knowledge of the basic principles of sailing	2	3

A course in which you will learn the names and functions of the various parts of a sailing dinghy or keelboat, some details about the weather and some of the theory of sailing

This assessment schedule is to be used to record your knowledge of the names and uses of the parts of a sailing dinghy. It will also record your knowledge of weather and tides. It will also test your understanding of how the wind propels a sailing boat in different conditions and the basic Give way rules and speed restrictions. The assessment will occur during 'onshore' sessions during which you will be expected to complete a number of practical exercises relative to the boat you are using or have nominated.

The standard of competency required to achieve this standard is to be very conversant with the terminology used, to be familiar with the various functions of the parts of the boat. You will be able to, unaided, tie knots appropriate for the purpose for which they are to be used. You will also understand the forces applied to a boat when sailing and the correct settings for the sails. You will be familiar with the Give Way rules and speed restrictions.

This includes the following-:

- Obtaining weather forecasts from several sources and how this might affect the planned voyage.
- Be conversant with terminology
- Judging wind strength and direction.
- Tides.
- Identifying the parts of the boat and their functions.
- Identifying the parts of the rig of the boat and their functions.
- The correct sail settings for a variety of points of sail.
- The forces of wind and water which make a boat sail.
- How to tie 5 knots and their purpose.
- The Give way rules in accordance with the International Regulations for the Prevention of Collision at sea.
- The speed restrictions in accordance with the Maritime NZ Rules Pt. 91. .



Task	Evidence	Judgment
1. Obtain weather	Student obtains weather forecasts	Student obtains correct
forecasts from at	from:	weather forecasts from at
least 4 sources.	Commercial radio	least 4 sources.
	Special VHF radio service	
	Coastguard	
	Met Service	
Ouote the 'golden	Internet	
rule' relating to	Weather_fax	
sailing in had	Nowspapers	
weather	TV	
weather.	The Colden Bule is	Student quotes Golden Rule
	The Golden Rule is	correctly.
	If in Doubt, don't go out	
2. Judge the wind	Student uses wave conditions to	Student correctly estimates
strength from	judge the wind strength:	wind strength in local
the wave	Open sea guide-	surroundings, in a range of
conditions.	Calm – sea like mirror.	different conditions.
	1-3 kts – ripples, no crests.	
	4-6 kts – small wavelets crests don't	
	break.	
	7-10 kts – Large wavelets, scattered	
	white horses.	
	11-16 kts – Small waves – fairly	
	frequent white horses	
	17-21 kts – Moderate waves many	
	white borses	
	22, 27 kts = 1 argo wayos, white form	
	22- 27 Kts – Large Waves, while roam	
	Crests, some spray.	
	28-33 kts – Sea Heaps up, white roam	
	biown in streaks.	
	34-40 kts – Woderately high waves,	
	crests begin to break into	
	spindrift.	
3. Determine wind	Student determines wind direction,	Student correctly determines
direction.	using appropriate methods:	wind direction, in a variety of
	- Windex.	conditions, using at least five
	- Movement of clouds.	different methods.
	- Movement of flags.	
	- Movement of trees.	
	- Movement of smoke.	
	- Movement of waves.	
	- Movement of gusts on water.	
	- Areas of calm.	
	- Observation of boats sailing.	
	- Local NOWCAST on VHF radio.	
4. Identify the state	Student uses tide tables, weather	Student identifies 3 sources
of the tide from	sections of newspapers, VHF radio	of tidal information and
3 sources.	broadcasts as sources of tide	describes the timing
	information.	between high and low water.
	Student explains 12 hour tidal	
	sequence.	Student uses 3 sources of
		information to determine
	Student uses, wet beach and current	



	movement as means of identifying state of the tide.	the state of the tide.
Either		
5a. Identify the	Student identifies parts of the boat:	Student correctly identifies 8
parts of the boat	- Centreboard case or Centre Case	of the 12 parts of the boat,
and its rig –	- Centreboard - Foil	either from a diagram or as
dinghy.	- Rudder & Tiller	indicated on a boat.
	- Bow.	It is recognized that
	- Stern.	alternative names for some
	- Gunwale.	parts are widely used and
	- Thwart.	answers which are correct in
	- Mast Step.	these terms are acceptable.
	- Gudgeons.	
	- Pintles.	
	- Cleat.	
	Student identifies parts of the rig:	Student correctly identifies
	- Mast.*	all items marked * and at
	- Boom.*	least 3 of the other parts of
	- Sprit.	the rig.
	- Peak. (Head of Tri-angular sail)	It is recognized that
	- Tack of the Sail.	alternative names for some
	- Clew of the Sail.	parts are widely used and
	- Throat.	answers which are correct in
	- Head. (Peak of Tri-angular sail	these terms are acceptable.
	- Luff of the Sail*	
	- Foot of the Sail*	
	- Leech of the Sail*	
	- Outhaul.*	
	- Boom vang.* (Kicker)	
	- Cunningnam. (Downnaul)	
	- Mainsheet."	
	- Mainsheet Diocks. (Pulleys)	
	lib shoot blocks (Bullows)	
	- Halvard *	
OR		
5b. Identify the	Student identifies the parts of the	Student correctly identifies 8
parts of the boat.	hoat:	of the 10 parts of the boat,
and rig – keelboat.		either from a diagram or as
		indicated on a boat.
	- Reel - Foll	It is recognized that
	- BOW.	alternative names for some
	- Pulpit.	parts are widely used and
	- Transom. (Stern)	answers which are correct in
	- Rudder & Tiller. (Helm)	these terms are acceptable.
	- Cockpit.	
	- Winch.	
	- Stanchion. (Safety Rail support)	
	- Headsail cars. (Jib sheet blocks)	
	Student identifies the narts of the rig	Student correctly identifies
	- Mast *	all items marked * and at
	- Boom *	least 3 of the other parts of
		the rig.
	- ⊢orestay.™	



	- Backstav.*	
	- Shrouds (Side stays)	
	- Spreaders (Cross trees)	
	Mainshoot *	It is recognized that
	- Mainsheet,	alternative names for some
	- Mainsheet Blocks – (Pulleys)	parts are widely used and
	- Mainsheet traveler.	answers which are correct in
	- Topping lift.	these terms are acceptable.
	- Mainsail.*	
	- Headsail.* (Jib, Fore Staysail)	
	- Head. (Peak of tri-angular sail)	
	- Clew of Sail.	
	- Tack of Sail.	
	- Luff of Sail.*	
	- Leech of Sail.*	
	- Foot of Sail *	
6 Domonstrato the	Student demonstrates sail settings	Student correctly describes
correct sail	for each Point of Sail	the setting of all sails during
settings for	- Sailing Upwind. (On the wind)	each point of sail or
various "Points	- On port tack.	manouevre.
of Sailing".	- On starboard tack.	
	- Sailing Downwind. (Running)	
	- Reaching.	
	- Tacking.	
	- Gybing.	
	- Luffing up.	
	- Bearing away.	
7. Explain the forces	Student explains how the pressure of	Student correctly explains
of wind and	wind passing over the sail(s) creates	how a sail works to move the
water on the	forward motion. Description includes	boat forward.
Centreboard or	forward drive and sideways forces	
keel - that	that are resisted by the "foil" –	
combine to	centerboard or keel, creating the	
create forward	forward drive to move the boat.	
motion of a boat.		
8 Tie 5 knots-	Student ties knots and gives one	Student correctly ties knots
Reef Knot	example of where each knot may be	and gives an example where
Bowline.	used -:	they may be used.
• Stopper knot -	Reef Knot.	
Figure 8 / Double	Bowline.	
Overhand	Stopper knot - Figure 8 or double	
Dound turn and	overhand	
	Bound turn and two half hitches	
two nair nitches.	Sheethend	
Sheetbend.		
9. Identify the basic	The student identifies the rights of	Student correctly identifies
right of way	way in various situations, as	the Give Way Rules and the
rules.	simulated, for the prevention of	general avoid collision rule.
	International Regulations for the	
	prevention of Collisions at Sea	"The International Collision
	Power gives way to sail except ships	Regulations for the
		Prevention of Collisions at



	over 500 Tons in harbour waters and in Ferry and Shipping Channels	Sea" apply at all times.
	Power boat gives way to another on its starboard side.	
	Keep to the Starboard side in channels.	NOTE:
	When sailing, a yacht on port tack gives way to a yacht on starboard tack.	The ISAF (The International Sailing Federation) Rules only apply between sailing boats while racing.
	When sailing a yacht to windward gives way to a yacht to leeward.	
	At all times avoid collisions regardless of who has right of way.	
10. Identify the 4 basic speed restrictions.	The student identifies the basic speed restrictions which apply while on the water in accordance with Maritime Rules Pt 91. Boats must not exceed 5 knots when:	Student correctly identifies the 4 regulations.
	 Within 200m of the shore or a vessel flying code flag 'A'. Within 50m of another vessel. Within 50m of a person in the water. Unsupervised, you must be aged over 15 to operate any powerboat capable of averading 10 knots. 	
	or exceeding to knots.	



Rig, Launch and Sail a Dinghy in up to 10 knots of Wind

Course Information

Number	Title	Level	Credits
21932	Rig, Launch and sail a dinghy in up to 10kts of wind	2	4

A course in which you learn to rig and sail a sailing dinghy.

You will be assessed from time to time during practical 'on water' sailing sessions. You will be required to:

- Demonstrate your ability to make steady progress in the task set.
- Demonstrate your knowledge of sail setting and body position appropriate to the point of sailing and the conditions.
- Demonstrate your ability to recover from a capsize and rescue a sailor from the water.
- Apply the basic Give Way rules when encountering other boats.
- Demonstrate ability to swim 50 metres in sailing gear including PFD.

The standard of competency required to achieve these tasks is that of a novice sailor. It covers the basic techniques of rigging, launching and sailing a small boat to the extent that you can carry out these tasks without supervision or assistance except for recovery and provision of a launching trolley, which may be carried out with the help of an assistant. You may also be assisted if the sailing dinghy is normally sailed by two people but in this case, you must take the role of helmsperson and skipper.

You will be required to demonstrate the following-:

- Correctly placing the dinghy on its launching trolley.
- Stepping the mast and attaching all running rigging, rudder and centerboard.
- Hoisting the sail(s) not including any spinnaker
- Checking all safety features.
- Taking to the water's edge & Launching appropriately for prevailing weather & sea state.
- Getting into the boat and sailing off the beach, Marina or launching ramp in both onshore and offshore wind conditions.
- Demonstrating knowledge of, and the correct sail settings for various points of sail.
- Tacking and gybing on command.
- Recovery from being "in irons."
- Sailing up wind. Sailing downwind and Sailing around a triangular course
- Demonstrate bringing the boat to a stop and sailing backwards.
- Capsize and recovery
- Rescuing a sailor from the water.
- Using fundamental "Give Way" rules to avoid collisions with other boats.
- Returning to the beach and placing the boat on its trolley.
- De-rigging the boat.



Task	Evidence	Judgement
1. Student rigs a boat and		
prepares to launch.		
1.1 Prepares the boat for rigging	The student positions the boat on the launching trolley, with assistance if required, so that the boat is easily handled without causing it any damage. Boat is positioned bow towards the wind	Boat is centralised sideways. Wheels of trolley are not in contact with the hull or equipment. Boat is positioned bow to the wind.
1.2 Step mast and secure rig. As Appropriate for the Class.	Mast is lifted into the boat and placed onto the mast step. The student steps the mast and attaches all the standing rigging.	Correct body position taken to avoid injury. Mast is correctly positioned. Rigging is correctly attached.
1.3 Rig Mainsail & Jib As applicable to the Class of boat sailed	The student fits the battens, feeds the mainsail onto the boom, attaches tack and clew, attaches the halyard, hoists the sail up the mast, connects the gooseneck. Attaches the jib halyard, attaches the tack, hoists sail and cleat halyard.	Sails are correctly attached to the boat, mast and sheets, as appropriate for the class. Battens are correctly fitted. Luff and foot tensions are correct for wind strength.
1.4 Attach control lines & fit rudder and tiller. (Some Classes require the boat to be launched before the rudder can be attached.)	The student attaches sheets and other control lines. The student attaches the rudder and tiller (if appropriate prior to launching for the class of boat sailed)	Sheets are correctly attached and rove through blocks, as appropriate for the particular class of boat. Stopper knots are correctly tied. Rudder and tiller are correctly fitted with all safety features in place. (If appropriate for the class sailed.)
1.5 Safety Checks	The student checks rigging and buoyancy, and ensures dinghy has a bailer and tow rope (If applicable) before launching. Check all safety items	Check ensures boat is rigged correctly and any necessary adjustments are made. Safety check ensures buoyancy, bailer and tow rope are all present and secured correctly as appropriate for the Class of boat sailed.
 Launch the boat and sail away from the launching area 21 	Techniques will vary depending on whether launching from a beach, marina or launching ramp.	



		~
2.1 Launching 2.2. Get into the boat and sail away from the launching area in breezes up to 10	The student takes the boat on its trolley to the water's edge and launches it into the water. (Rudder is fitted if not done previously.) (Before launching student will check trolley will be retrieved and secured by helper ashore.)	Boat is trailered bow towards the wind. Boat is launched safely, taking full account of the strength and direction of the wind and waves. Boat is launched and held bow to the wind, or bow to the waves if they are large enough, without the wind or waves knocking it over.
2.2 a) Offshore breeze	(Offshore breeze) The student gets into the boat unassisted, pushes off from the beach, marina or ramp sets the rudder and sails the boat into deeper water, places the centreboard into the centreboard case.	The student entered the boat efficiently and appropriately for the conditions. Boat sailed away from the launching area without difficulty with the sails or waves, and without grounding.
2.2 b) Onshore breeze	(Onshore breeze) The student gets into the boat unassisted, sets the rudder and centerboard, pushes off from the beach, marina or ramp and sails the boat into deeper water.	The student entered the boat efficiently and appropriately for the conditions. Boat is sailed away from the launching area without difficulty with the sails or waves and without grounding.
3 Sail around a triangular	The student proceeds	Student demonstrates
course in winds up to 10	around the course	correct sail setting for each
knots set un for approx	remaining under control	leg and makes steady
5-10 minutes per circuit	with a minimum of tacks and	nrogress
Course should include	gybes with the sail(s)	Fach change of direction at
obstacles such as other	correctly set for each leg of	the start of a new log is
yachts or moored boats.	the course.	carried out within 2 hoat
Demonstrate correct	The student shows ability to	lengths of the marker buoy
tacking & gybing	anticipate collisions and to	and the boat is promptly set
techniques, balance &	take avoiding action.	up for the new point of
trim & ability to hike, bail	The student demonstrator	sailing.
& avoid obstacles whilst	an ability to "hike" – feet	Student completes course
sailing.	under hiking straps, leaning body outwards. Student	steering clear of all obstacles.
NOTE:	shows awareness of good	Student demonstrates the
Bailing demonstrated if	balance and trim.	skill of hiking, when wind
applicable to the boat	Student simulates "bailing"	strength requires, and good
sailed:	while sailing - if appropriate	balance and trim when
Boats with false floors or	 holds mainsheet and tiller 	



are self-draining do NOT require bailing.	extension together, using the hand closest to the tiller, bailing with the other hand	keeping the boat level. Student maintains control of the boat whilst bailing – if appropriate - and keeps a look out for other boats.
3.1 Tacking and Gybing will be executed smoothly and using the correct techniques.	Student shows ability to tack or gybe demonstrating correct balance and use of the tiller extension with the mainsheet.	Tacking and gybing are executed smoothly using correct technique with body movement, mainsheet and tiller extension.
3.2 Sail the boat efficiently at different "Points of Sail".	 The student sails the boat at various nominated Points of Sail. Upwind sailing - sail sheeted in. Beam Reach - sail half sheeted in. Broad reach - sail almost completely sheeted out. Running – (Downwind sailing) - sail sheeted at approx 90°. Recover from being in "Irons" when it has stopped bow to the wind and is moving backwards.) 	The student correctly positions the boat relative to the wind direction and adjusts the sail(s) centerboard, and body position accordingly for each of the nominated points of sail . Student demonstrates recovery from "In Irons" by holding the tiller towards the sail and sheeting in. When sail stops luffing student will straighten tiller.
 Rescue a person in the water and transfer person to another boat. 	The student brings the boat to a stop alongside and rescues a person in the water. Rescued person is transferred to another boat. Student assists rescued person into second boat.	Student demonstrates sufficient control of the boat to carry out this manoeuvre safely. Boat approaches target upwind. Sheets are eased in advance. Jib may be backed to maintain control. Boat comes to stop with student within reach of target. Student maintains control of boat while retrieving person from water. Student approaches second boat on leeward side and comes to stop within reach of boat. Student maintains control of boat while assisting transfer of rescued person.
5. Sail the boat backwards	The student sails the boat	The student performs this



in light to moderate wind conditions.	backwards for at least 15 seconds.	manoeuvre with control. Boat stops bow to wind.
		wind.
		Rudder used in reverse while maintaining backwards
		momentum.
		Body position prevents swamping.
6. Right a capsized dinghy.	Student swims around to centerboard and pulls themselves up onto it and leans on centerboard until boat comes up. Student climbs in over windward side of the boat and bails out the water while luffing the sail.	Student waits until boat turns bow to the wind before leaning on the centerboard. Student successfully rights boat and climbs onboard, without a further capsize. Student maintains control of boat while bailing – if appropriate - and maintains lookout for other boats.
7. Student demonstrates ability to swim 50 metres	Student swims 50 metres in sailing gear wearing PFD	Student demonstrates ability and confidence in the water
8. Return to the launching area and put boat on trolley.		
8.1 Return to the launching area. Techniques will vary	The student sails the boat back to the launching area taking care to avoid the centerboard touching the	The student, at all times, demonstrates an understanding of the effect of the wind and waves on
depending on whether launching from a beach, marina or launching ramp.	The student exits the boat and holds it at the water's edge bow to the wind and	appropriately to avoid swamping or damaging the boat and no-one is injured.
	awaits trolley.	Boat comes bow to the wind. Centreboard is raised before touching bottom. Rudder is raised if possible.
		Student gets out of the boat before it grounds and holds boat bow to wind or bow to waves as most appropriate.
8.2 Boat is placed on the trolley and taken ashore.	Whilst keeping the boat bow to the wind and, with assistance, the boat is loaded	Boat is placed on trolley and taken ashore keeping the bow towards the wind
	on to the trolley. Sails may be removed to aid retrieval before placing boat on the trolley.	The Student may remove sails before placing on the trolley to remove the effect of the wind.
9. Boat is re-rigged and stowed.	Student de-rigs the boat, washes down and packs all equipment away, folds and stores sails, and leaves boat	Student de-rigs boat, without causing any damage, packs boat and equipment away so it is correctly

	Yachting N	lew Zealand
tidy and dry.	stowed, ready for re-use.	



Carry out Basic Sailing and Seamanship Activities as a Crew Member on a Keelboat

Course Information

Number	Title	Level	Credits
21933	Carry out basic sailing and seamanship activities as a crew member on a keelboat	2	4

A course in which you learn to rig and crew on a keel boat.

You will be assessed from time to time during practical 'on water' sailing sessions. You will be required to demonstrate your ability to take any crewing role on the boat. You will be expected to be familiar with the equipment on the boat you are using and to answer questions related to it.

The standard of competency required to achieve these tasks is that of a novice crew. It covers the basic techniques of preparing to go sailing, rigging and sailing a keelboat to the extent that you can carry out these tasks as a member of the crewing team under the direction of the skipper.

You will be required to demonstrate the following-:

- Prepare the boat ready to hoist the sails.
- Check the motor prior to sailing.
- Hoist the sails.
- Efficiently crew in key positions on the boat.
- Trim the sails appropriately.
- Select the correct sail for the prevailing conditions.
- Change a headsail whilst underway.
- Reef and take out a reef in the mainsail while underway.
- Actively participate during a man overboard simulation.
- Demonstrate knowledge of the basic rules for prevention of collisions and speed restrictions.
- Helm a boat in open water under both power and sail, under supervision.
- Anchor the boat safely.
- Use a rowing dinghy to access the boat.



Task	Evidence	Judgment
1. Prepare boat ready to hoist	Student prepares boat for sailing:	Student completes all preparations correctly and
ready to hoist sails, arrange all sailing equipment, safety gear, and navigation equipment ready for use. Start motor.	 Unlocks boat. Removes covers. Turns on power, gas, etc. Stows safety equipment ready for use, including lifejackets, safety harnesses, navigation equipment, fire extinguishers and first aid kit. Reeves sheets. Selects headsail ready for hoisting. Fits mainsail battens – if applicable. Fits main to boom and attaches tack and clew. 	efficiently.
vary whether sailing from marina, mooring or	 Takes up topping lift. Attaches halyard. Checks ropes are clear of propeller. 	
launching ramp.	 Checks fuel level, starts motor and checks cooling, oil pressure and alternator gauges. Stops motor. Prepares mooring ropes for release. 	
 Helm boat under power and sail in open water, whilst supervised by the skipper. Demonstrate knowledge of the Give Way rules 	Student helms boat under power under instruction, to come to a stop alongside floating object. Observes Give Way rules in accordance with the "International Regulations for preventing Collisions at Sea". NOTE: The ISAF (The International Sailing Federation) Rules only apply between sailing boats while racing. Student helms boat under sail under instruction, on various points of sail, and brings boat to a stop alongside floating object. Observes Give Way rules	Student correctly follows instructions and stops within 1.0m of a floating object. Observes give way rules if other vessels are encountered. Student correctly follows instructions keeping the wind at appropriate angle for close hauled, on a reach, and on a run, and stops within 1.0m of a floating object. Observes give way rules if other vessels are encountered.
3. Select mainsail, reef option and headsail to suit various conditions. Hoist sails ready to sail.	Student selects sail combination having assessed wind and tide conditions for proposed trip. Student identifies combinations for wind strengths 5, 10, 15, 20 and 25 knots. Boat should be head to wind. Use halyards & winches to raise sails. Halyards cleated off.	Sailor chooses appropriate sail combinations. Student identifies suitable combinations of main /reef and headsail for all five wind strengths. Sails are raised to full height without catching unless reefed. Winch used to tighten halyards and cleated off at correct tension.
4. Take the position of each crew member in turn.	Boat sails an extended figure of eight course and includes a change of headsail.	



<u>4.1 Mainsheet</u> <u>hand</u>	Sheets mainsheet and adjusts traveller for each leg of course in conjunction with helmsman.	Mainsail is correctly trimmed, using woollies, for each point of sailing, and through tacks and gybes.	
4.2 Headsail trimmer	Sheets head sail for each leg of course.	Head sail is correctly trimmed for each point of sailing, and through tacks and gybes.	
4.3 "Keyboards"	(Not all keelboats use this system)	Student carries out	
(If Applicable)	Operates halyards and cleats, as	functions promptly and	
<u>,</u>	required, during sail adjustments.	efficiently, as requested.	
4.4 Foredeck	Clears headsail and sheets for each leg	Headsail snags are quickly	
hand	of course, and during tacking and gibing.	cleared. Moves across	
	Carries out headsail change:	boat and takes up correct	
	Un-hank bottom hank on current sail	position so that boat is	
	Hank on now sail	correctly balanced.	
	Take windward sheet of evenent coil and		
	Take windward sheet of current sail and		
	attach to new sail.	Student carries out each	
	Change position of headsail car.	function of the sail change	
	Drop current sail, un-hank and secure.	without supervision.	
	Attach halyard to new sail.		
	Tack the boat and hoist new sail.		
	Attach remaining sheet to new sail.		
5. Reef and Un-			
reef the			
Mainsail.		Deef is some the and	
5.1 Take a role	Student assists with reeling the main:	officiently set in mainsail	
nutting a reef in	Ease mainsneet and valig. Tighton tonning lift	enciently set in mainsail.	
the mainsail.	 Ingriteri topping int Lower balvard until reef cringle can 		
	be put on bullhorn		
	 Place reef cringle on bull horn 		
	 Re-tighten halvard. 		
	 Tension reef line until reef is down 		
	to boom.		
	Release topping lift.		
	Sheet on mainsail.		
	Tighten boom vang.		
	Tidy up keyboard area.		
5.2 Take a role	Student assists with reeting the main:	Reet is correctly and	
taking a roof out	Ease mainsneet and vang. Tighton topping lift	the mainsail	
of the mainsail	 Fase balvard until reef cringle can be 	the manisan.	
	taken off bullhorn.		
	Take reef cringle off bull horn.		
	Release reef line.		
	Re-hoist halyard.		
	Release topping lift.		
	• Sheet on mainsail.		
	• Tighten boom vang.		
	• Tidy up keyboard area.		



6. Take an active role during 'Man Overboard' – simulation.	 Call "Man overboard": (MOB) Crew member appointed to act as spotter. Throw life ring. Helmsman puts boat onto a beam reach. Sails to approx. 8 boat lengths away and tacks backing the jib if required. Ask spotter to call. Direct helmsman so as to sail below MOB. Order "Ease sails'. Ask helmsman to round up towards MOB. Pick up MOB on appropriate side using boat hook or a rope. Observe caution when using a boat hook! 	Student performs the role allocated with accuracy so that boat comes alongside MOB and stops. Jib is held against the wind to assist tack. MOB efficiently and safely brought back on board. Student will act with caution when using a	
	hook!	boat hook.	
7. Select an anchoring site suitable for conditions and guide helmsman to correct	Student selects suitable safe anchoring site by consulting chart and tide table and weather forecast. Student guides helmsman to site.	Student allows for depth of keel, tide, wind and other boats.	
nosition.			
7.1 Lowers	Student supervises and carries out the	Student lavs out chain (or	
anchor.	anchoring of the boat after checking depth.	chain and warp) allowing for a 3:1 depth ratio.	
7.2 Weighs and stows anchor	Raises, stows and secures anchor using windlass if available. Cleans deck.	Raises anchor using safe techniques. Student stows anchor correctly and cleans deck.	
8. Swim 50m.	Student demonstrates ability to swim 50m in sailing gear including a PFD.	Student demonstrates confidence & ability	
9. De-rig, stows and pack away boat following sailing.	Student assists with folding and stowage of sails. Student stows safety, navigation sailing and other equipment. Cleans, washes down and tidies boat and replaces covers and hatches. Pumps bilges dry.	and stowageStudent correctly de-rigscy, navigationthe boat, and packst. Cleans,equipment into correctat andstowage. Cleans and tidiess. Pumpsand dries the boat.	
	Checks Ballery, Fuel and Gas turned off.		
10. Use a rowing dinghy to access keelboat.	Student manoeuvres rowing dinghy from shore to waiting yacht, by rowing and paddling and by outboard motor if fitted. Student boards yacht and secures dinghy for towing using a long painter for heavy dinghy and a short painter for inflatable.	Student demonstrates balance entering dinghy. Student makes efficient way paddling and rowing. Student operates outboard motor safely. Student attaches dinghy with correct length of painter for type of dinghy	



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Unit 21929:	Dinghy Safety (2 Credits)		
Unit 21930: Keelboat Safety (2 Credits) Total Number o			Total Number of
Unit 21931: Basic Principles (3 Credits)			Credits
Unit 21932: Dinghy Sailing (4 Credits)			
Unit 21933: Keelboat Crewing (4 Credits)			
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All information is kept confidential in accordance with the Privacy Act 1993. If you have any enquiries please contact Andrew Clouston, Email: <u>andrew@yachtingnz.org.nz</u>