Marine Teachers Association of Queensland Inc.

Marine Olympics Marine Safety Day Manual

2nd Edition 1999

Wet Paper
Publishers and Consultants

QUEENSLAND TRANSPORT
Queensland Department of Transport

THE MARINE OLYMPICS MARINE SAFETY DAY MANUAL

2nd Edition 1999

developed by
The Marine Teachers of Queensland

in association with
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Association of Independent Schools

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Queensland Department of Transport

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Appendix by Phil Smith

Acknowledgements

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Boating and Fisheries Patrol

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About this manual

Computer Disk

Enclosed – Courtesy of Dan Stewart, South Coast Branch MTAQ

Background PPs 4–13

This gives you an insight into MTAQ and the histroy behind the project.

Discussion points PPs14–21

Designed to get you thinking

Activities PPs22–42

These are just a few possibilities and you are encouraged to modify these according to you wishes.

Appendices PPs 45–57

Courtesy oif Phil Smith

Second Edition

The first edition had no photos and was in draft outline. This edition is a bit better and has a disk from Dan Stewart, Gold Coast Branch Rep.

As this is put together on a shoe string and a few weekends of volunteer time, subsequent editions will be better.

Feedback welcomed

Suggestions for improvement can be directed to the publisher:

14 Milbong Tce

Ashmore 4214

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Marine Teachers Association of Queensland Inc.

Figure 4.1 The principal goals of the association are to promote fellowship amongst teachers

Who we are

- The Marine Teachers Association of Queensland is a group of over 200 individuals who are involved with the teaching of marine studies and marine education subjects in Queensland education systems.
- Marine teaching is carried out in Primary and Secondary Schools as well as and in Tertiary Institutions.

What we teach

- Over 85 schools teach Marine Education in Queensland.
- One type of Board of Senior Secondary School Studies course is Marine Studies designed for students who want to undertake tertiary studies.
- Another type of Board of Senior Secondary School Studies course is Marine and Aquatic Practices which is designed for students who do not want to undertake tertiary studies and who want to get a job as soon as they leave Year 12. This course combines vocational and life skills into a dynamic program of very useful education.
- A developing area is Junior Marine Studies which can be incorporated into subjects such as Science, Geography, Physical Education or Manual Arts or offered to students as a stand alone subject in years 9 and 10.
- Primary Marine Studies is a new area of endeavour for the association and where possible Primary teachers network with secondary teachers in common areas of interest.
- Over 6000 students studied marine studies in one of these areas in 1998

Figure 4.2 MTAQ conference delegates 1995

Figure 5.1 MTAQ delegates Hervey Bay Conference 1998

Figure 5.2 MTAQ delegates Cairns Conference 1997

Figure 5.3 MTAQ delegates Mackay Conference 1996

How we are organised

- Our Association has nine branches covering the coast of Queensland with reps at the following schools:

  South Coast - Elanora State High School

  Brisbane - Deception Bay State High School

  Sunshine Coast - Burnside State High School

  Wide Bay - Maryborough State High School

  Gladstone - Gladstone State High School

  Rockhampton - Yeppoon State High School

  Mackay - Mirani State High School

  Townsville - Townsville State High School

  Cairns - Babinda State High School

- An executive teleconferences every two months when new members are proposed and business is conducted.

Our objectives

- The principal goals of the association are to promote fellowship amongst teachers by:
  - developing in-service and training courses for its members
  - helping as many classroom marine teachers as possible attend an annual conference on a topic relevant to a particular year
  - developing useful policy documents from time to time that will assist in the smooth running of the subject in schools
  - producing 8–10 newsletters a year
  - assisting Education and Marine Authorities achieve their objectives within a supportive network
  - conducting regional events such as the Marine Olympics/Marine Safety Day, to promote marine safety and skills amongst our students
  - becoming involved in other activities that promote marine studies in general e.g Seaweek, Ocean Care Day, National Water Week

Figure 6.1 MTAQ members become involved in other activities that promote marine studies in general e.g Seaweek, Ocean Care Day, National Water Week

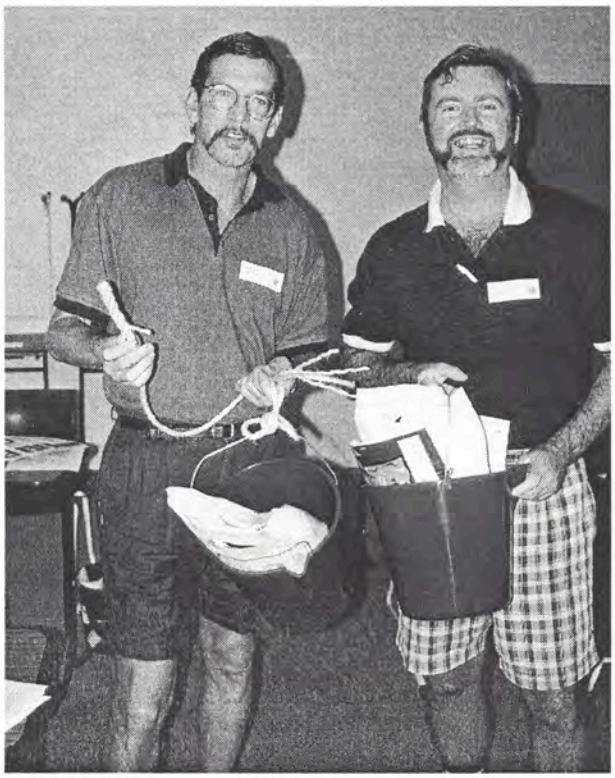

Figure 7.1 Helping as many classroom marine teachers as possible attend an annual conference on a topic relevant to a particular year is a core objective of our association

Figure 7.2 Developing links with commercial operations creates awareness in our members that opens the doors for vocational opportunities

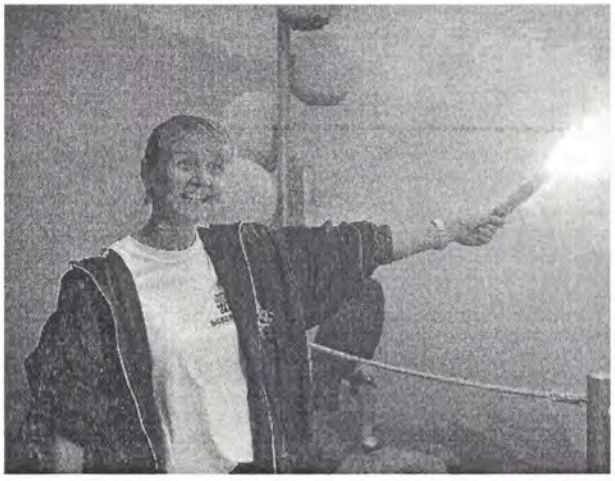

Figure 7.3 Providing opportunities to develop new skills

Types of membership available

- The model rules for incorporation have been adopted as the Association's constitution and members are admitted according to these rules as outlined on our web site:
  http://www.wetpaper.com.au/mtaq
- Ordinary members. This is available to practising marine studies teachers who are nominated by another ordinary member and accepted by an executive elected each year at our AGM.
  Ordinary members are entitled to vote, receive conference discounts, newsletters and copies of free publications or resources produced or given to the association.
- Associate members need to be nominated by ordinary members and are entitled to membership discounts but have no voting rights
- School members. This allows three marine teachers, their Principal or Senior Administration Staff to take advantage of ordinary member opportunities.
- Honorary members, nominated by the executive, receive copies of the newsletter only and have no voting or conference/seminar discount rights.

Becoming a member

That's easy, just contact any of the schools listed under the heading - *how we are organised* and organise to be nominated. Alternatively contact our office at the address below. Then send $35.00 with the application for membership form to:

Membership Secretary MTAQ

14 Milbong Tce

Ashmore 4214

MTAQ — Profile of the association 1994–1999

- The Marine Teachers Association of Queensland was formed on Thursday 4th August 1994, at Camp Minjerribah on South Stradbroke Island in Queensland.
- At present is has approximately 200 members.
- The association represents the interests of Marine Teachers in Queensland and has initiated links with Queensland Transport, Queensland Boating and Fishing Patrol and a number of major sponsors.
- MTAQ has initiated a maritime boating safety and environmental studies event of potentially national significance - the Marine Olympics.
  This event seeks to promote awareness of the Boating Environment in a friendly competition organised by our local branches between local schools all along the Queensland coast.
- MTAQ has initiated six State Conferences since its inception in 1994
  - Inaugural Stradbroke Island 1994 - Forming our association
  - Meeting the Challenge conference - Rockhampton 1995

Figure 9.1 Improving the skills of our teachers

Figure 9.2 Assisting Education and Marine Authorities achieve their objectives within a supportive network . Eg. Over 100 Marine Teachers at North Kepple Island Field Study Centre 1995

- Ecotourism and Marine Life - Mackay 1996
- International year of the reef - Cairns 1997
- International year of the ocean - Hervey Bay 1998
- Urban Oceans Conference - Coolangatta 1999

- At present MTAQ is developing a Certificate in Marine Teaching for our members with Tertiary Institutions, the Australian Maritime College, Education Queensland, Cath. Ed, AISQ and other private providers.
- MTAQ has
  - provided and developed training courses for its members at a branch and state level
  - assisted the Australian Student Traineeship Foundation in a trial of structured work placements in Queensland schools and played a major role in marine vocational education
  - provided feedback to the Department of Sport, Environment and Territories on Coastal and Marine Educational Issues
  - helped Marine Teachers in NSW, SA and WA to set up similar subject associations
  - developed a manual of best practice for School Barrier Reef Island Excursions
  - worked with QYA and Queensland Transport to develop a course for teachers so they can issue speed boat drivers licences to their students in school
  - assisted Education Queensland in the development of a marine safety manual for schools
  - assisted the BSSSS in the development of Marine Studies and Marine and Aquatic Practices syllabi
  - developed an instructional booklet on the Marine Olympics
  - assisted in the organisation of Seaweek and Ocean Care Day celebrations for Queensland schools for MESA and Environment Australia
  - participant in COASTNET for Environment Australia
  - networked with the Australian Maritime College and National Consortium of Marine Teachers to initiate a national teacher data base and provided opportunities for teachers to attend national Marine Teachers conferences and workshops
  - successfully made representations to the Ministers of Transport and Education to overturn a decision to charge schools up to $1000 per year for boat licence registrations fees and been asked by the Maritime Industry Consultative Council to make representation on behalf of Marine Teachers.
  - Conducted a series of local in-service seminars/ workshops on marine safety, boating and marine conservation issues

Figure 10.1 MTAQ has developed a manual of best practice for School Barrier Reef Island Excursions

FOR FURTHER INFORMATION

Telephone: (07) 5597 2806

Fax: (07) 5539 4187

http://www.wetpaper.com.au/mtaq

MTAQ

APPLICATION FOR MEMBERSHIP

Name _____

School/

Organisation _____

Address _____

_____ Code _____

Membership type

Ordinary ..... [ ] $35 Associate ..... [ ] $35 School ..... [ ] $105

Nominated by _____

School/

Organisation _____

If application successful, I hereby agree to abide by the rules of the Marine Teachers Association of Queensland Inc as set out on page: *Rules and constitution* on the web site:

http://www.wetpaper.com.au/mtaq

....

Signature Date

Please post this form with membership fee to:

The Membership Secretary MTAQ

14 Milbong Tce

Ashmore 4214

Please make cheques payable MTAQ

For further information contact

The Publicity Officer (Hon)

Telephone: (07) 5597 2806

Fax: (07) 5539 4187

Marine Olympics/ Marine Safety Day: Background Information

Figure 12.1 Original Marine Olympics Sea World 1992

Marine Olympics/Marine Safety Days have been designed to assist students learn boating and personal water safety skills in a supportive atmosphere.

These events give students the opportunity to participate in a range of boating and emergency procedures that current Marine Studies and Marine and Aquatic Practices courses do not provide.

Students participate in a range of boating activities, learn first hand about safety and emergency procedures as well as interact with local marine authorities. The day is run in conjunction with Government boating safety officers and other waterways authorities.

The day consists of a variety of competitive and noncompetitive events outlined in this document. A number of these events can be chosen for each activity day, depending on their suitability.

The concept is in its early years and the vision of the Olympics/Marine Safety Days is that it extend into areas such as snorkelling, marine environment, conservation and management.

The day introduces many teachers to their local businesses increasing the networking possibilities for our vocational programs with the Australian Student Traineeship Foundation.

Our Rockhampton Branch runs a very successful Marine Safety day in a swimming pool

Marine Studies

Students enrolled in high school marine courses learn about the sea and essential mariner skills. Many marine courses have vocational elements and include classroom theory components and on-water training.

The Marine Olympics/Marine Safety Day is an extension of this subject. In Queensland, many of these students are ready for marine licensing testing at the completion of the mariner skills component.

In marine courses, students learn about commercial, scientific, recreational and management of the seas resources. Many

Figure 12.1 Many vocational skills are learnt on the day

Figure 13.1 Western Australia Marine Teachers have developed their own style. This one is called blind mans bluff, where the rower has to respond to the calls of hard to port, a little bit to starboard while blindfolded

practical elements are taught including marine radio operation, boating safety, navigation and many onshore boating activities such as how to tie knots, use ropes and maintain marine motors and equipment.

Most, if not all, of these mariner skills are learned at the marine Olympics/Marine Safety days.

On completion of the course students will have had a comprehensive look at boating and safety.

Although the Marine Olympics/Marine Safety Day is not a component or requirement of the syllabus, it does supplement the teaching and skill development of students that are outlined for both the academic and vocational sides of the Marine Studies course.

ORIGIN

The marine students concept was first attempted on weekends to provide an educational venue for young boaties to learn about safety. This was prompted by the increasing popularity of youth boating. Most of these people who turned up to this event were students and as a consequence the concept was taken into schools. This solved the insurance problem - a potential disaster area. The days were co-ordinated by Queensland Transport Boating Safety Program.

The day first evolved in about 1992 from cooperation between Queensland Transport, Sea World, Wet Paper and Marine Studies teachers on the Gold Coast, to give a little extra to their boating curriculum, creating team spirit with the added bonus of involving Queensland Transport, giving credibility and community standards.

From their inception, it has now grown to be an annual event in all MTAQ Branches from the Gold Coast to Cairns, and has spread to Western Australia.

The newly formed MTAQ saw the Marine Olympics/Marine Safety Day as a positive and worthwhile initiative and have fully endorsed its format for Marine students in Queensland.

Figure 13.2 Casting competition WA

DISCUSSION POINT 1: BAD SITE - BAD DAY

RISK ASSESSMENT

Procedures

Risk assessment is about determining the potential for accidents.

All school excursions have set procedures and policies and the Marine Olympics day must be treated as a normal school excursions where:

a. The school Principal gives approval

b. Parents are informed of the activities under taken

c. Teachers are fully briefed and trained in the activities to be undertaken

d. All relevant safety procedures followed from the safety manuals issued by the Education Department or relevant school authority and if necessary engage additional qualified persons for the day.

Hints

1. If you involve the ambulance your will have immediate first aid assistance.
2. If the fire brigade comes, you will have emergency services on hand.
3. If the boating patrol, fisheries and transport departments are involved you will have personas with the necessary maritime qualifications.

Planning

1. Read the content paragraphs in Figure 1.3 and use them as discussion starters for your planning meetings.
2. Follow normal school excursion procedures for any one day excursion and discuss this with your group.
3. Choose your site carefully. Remember:

   Bad site – bad day

GETTING STARTED

Firstly seek support from the educational department - the schools, district and region.

Choose a competition site

"Bad site - bad day"

When choosing a site for your day consider:

- Exposure
- Tide - all stages of the day
- Depth of water
- Amenities
- Shade is preferable (marquees)
- Adequate foreshore area
- Room for catering
- Source of power
- Access for schools

After you have found the perfect site, check with local authorities about the availability and book the site

(Appendix A of the next edition will have examples of site plans)

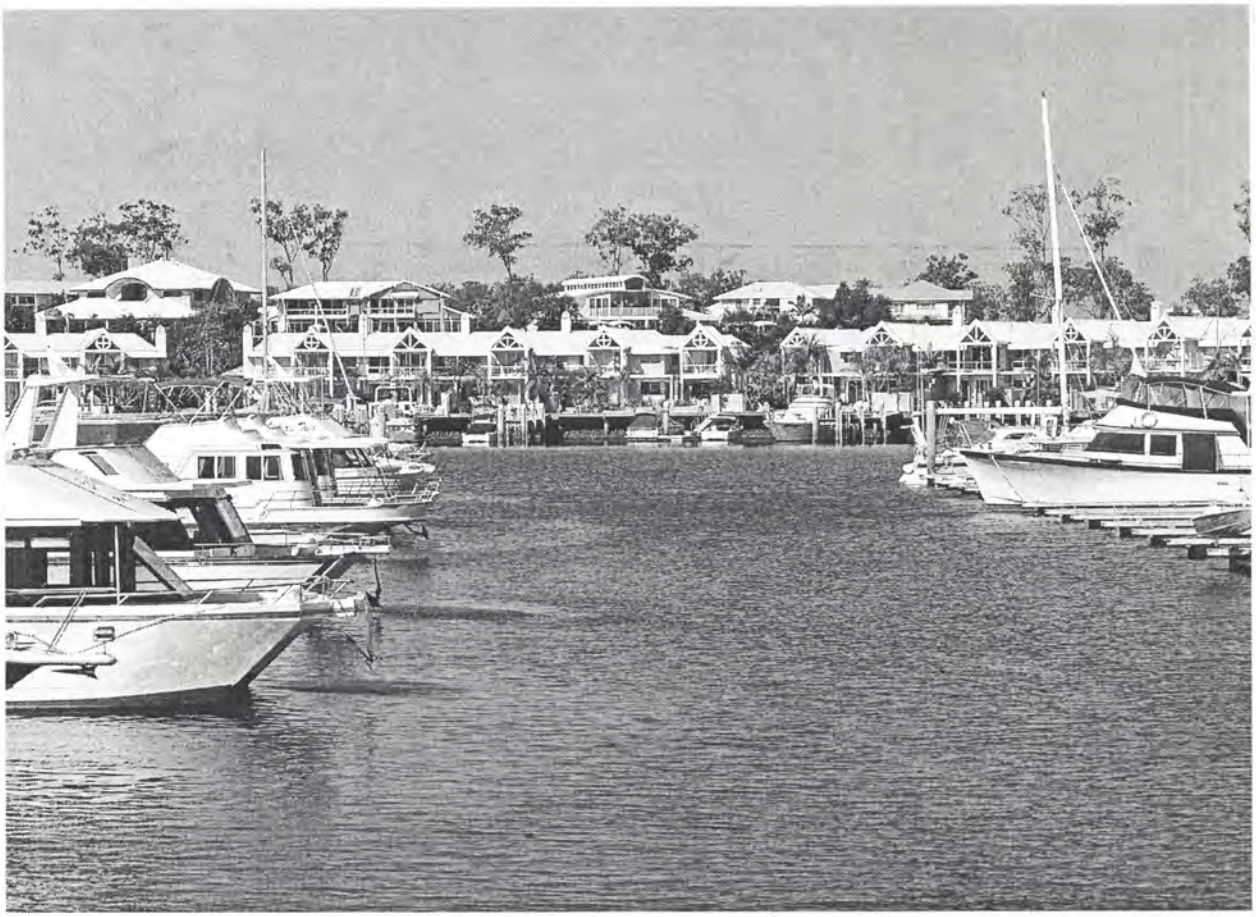

Figure 15.1 Do not chose a potentially busy site for your events

"The objective of the day is for students to participate in as many hands-on activities as possible.

The first part of the day should be a rotation of students through the chosen activities - the second part of the day dedicated to competitive events.

Please note the competitive component is not compulsory and should be debated with your local branch committee."

Discussion point 2: Engage support for events

The following are considered essential in the planning process:

- Principal
- Community
- Harbour master
- Queensland (or other state) Transport
- Boating patrol
- Water police
- Ambulance
- Fire brigade
- Deputy Principal
- Support team
- Local Branch Rep

Six points to remember when chasing sponsors

1. Two brands – Two problems
   - Don't compromise local suppliers by getting competing firms to sponsor items i.e.. Don't have Mariner and Yamaha Motors as prizes
2. Big prizes — Big hassles
   - A 15hp outboard as a prize creates too much tension - its a fun day not a fight to the death
3. Always, always remember the sponsor as a business person who uses sponsorship in-leu of advertising.
4. Ask for prizes between $50-$500 and give equivalent exposure. Eg.
   For $50 - you get a mention on parade and your logo in the newsletter.
   For $500 its worth getting in the media and having sponsors flags and an article in the press.
5. Remember the more you get, the more you have to give back to your sponsor otherwise she or he won't come back.
6. A series of small prizes is less hassle and your sponsor will not ask much back in return
   - Having said all that, some sponsors just love giving those motors so what the heck – put the names in a barrel for the winner or give to the newest school on the block

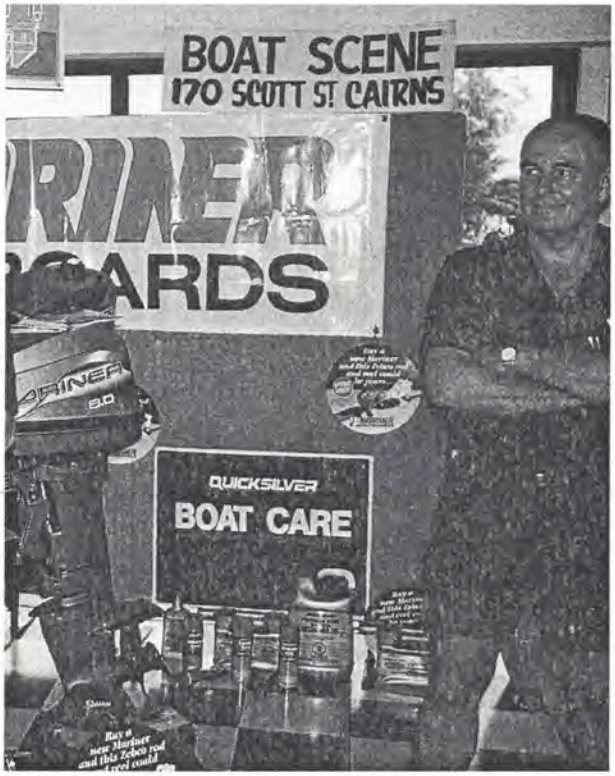

Figure 16.1 The local boating community can provide valuable support and can help you when you have problems getting your Marine Studies program up and help

CHOSE A PHRASE FOR YOUR LETTER HOME TO PARENTS

Activities for the day will include:

1. A swamped dinghy exercise where students learn to bail out a small aluminium dinghy that has been filled with water.
2. Practice in the firing of emergency flares where students will learn how to set off a smoke flare.
3. Speedboat driving skills where students will learn how to drive a large power boat at slow speed
4. Navigation skills where students will learn how to obey navigation markers while on board a vessel
5. Life raft procedures where students will learn how to put on a life jacket, jump off a boat into the water and swim to a life raft where they will be required to climb in and paddle as a group.
6. Trouble shooting where students will learn how to find common problems with an outboard motor
7. Knot tying where students compete to see who can tie common knots in the shortest time
8. Personal water craft where students have the opportunity to drive a jet ski
9. Iron mariner where boys compete in a run, swim, row event similar to the surf life-saving iron man.
10. Iron maiden where girls compete in a run, swim, row event similar to the surf life-saving iron woman.

All activities will be supervised by suitably qualified persons.

Ambulance, fire brigade, boating safety patrol, water police will be assisting with supervision on the day.

REFERENCES

DOEM documents on boating, snorkelling, fishing, radio

Figure 17.1 Content for letters

Dan Stewart, South Coast Branch, has prepared a disk with all his organisational stuff on it. So put it in the computer and make a copy

Discussion point 3: Organisation before the day

After you have chosen your date, site and activities, you will need to organise more specific details.

Next edition will have a flow chart but wade through Dan's Disk and Phil's Appendix and you'll get the idea.

Its just like running a sports day, only think different is you have the local Police, Harbour Master, Ambulance and Fire Brigade to impress. Remember — Marine Teachers can do anything!

Before the event

To maximise effort and minimise work loads, two coordinators are advisable - one teacher to coordinate teaching staff and students and another to coordinate the government departments involved. To ensure all aspects are covered and kept up to date, extensive liaison between both coordinators via phone, fax, and personal meetings is advised.

Several meetings involving teachers and government officers outlining requirements, expectations and responsibilities for each will ensure a smooth running day.

Checklist

This is one of the most important things you will do:

- everything will need to be checked and double checked.

Great to have a meeting the night before .

Delegate duties

- Catering
- Sponsorship
- Marquee/s
- Boats - of the same size, with flotation
- Motors for troubleshooting and bins
- Liaison with other parties e.g.: ambulance etc...
- Letters, permission notes etc.
- Check Dan's Disk

Delegation of duties amongst organisers could be:

- Chairman
- Pubic relations
- Liaison
- Equipment
- Timetables

Contact Jo Nettle
Qld Transport
(07) 3404 3056

Figure 19.1 Bin for used flares

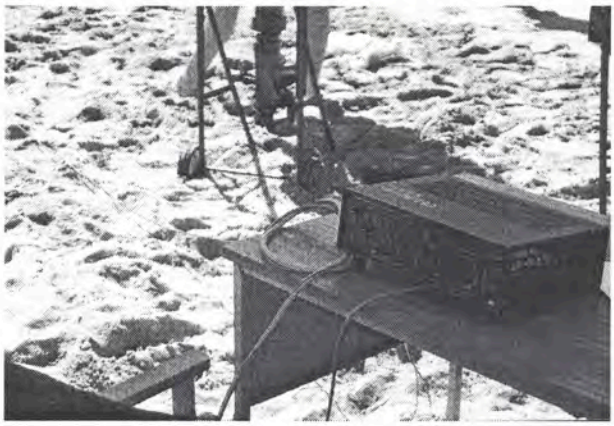

Figure 19.2 You gotta have a PA system

Figure 19.3 Generator

MAKE UP A CHECKLIST

Discussion point 3: Organisation on the day

In the introduction/welcome the students should be given an overview of the day's activities and objectives. In this introduction the students should be given and briefing on marine safety emergency procedures.

Suggested procedures

Flares and the RFD should be let off (both orange and red) and their use explained.

Events are scored either by time, or first past the post, as in 'Swamped Dinghy', or through assessment of skill and knowledge in the activity, as in 'Driving Skills'. If there are more schools than the pieces of equipment, then heats can be run.

Get organised early in the morning - teachers to be responsible for kids. Expect to run around after them. Have a great day.

Students are rotated through the activities with teachers moving with them to the various stations.

For example a 5 school event with approximately 170 students the type of resourcing required would be

- 10 Marine authority
- 10 Teachers.

Delegation

- Driving Skills — Government
- Flare display — Government
- Swamped dinghy — Government / Teachers
- Life raft procedures — Government / Teachers
- Trouble shooting — Sponsor / local dealer / Teachers
- Knot tying - Teachers
- Wave runners — Government / the provider

Students

Teachers to rotate students through activities as per roster (recommended 2 teachers per school)

Scoring

Area Maps

For safety reasons, it is imperative activities are separated. A few rules include wave runners and driving skills to be separated. (Appendix 1, include an example area map).

Figure 20.1 End of day - presentations

Who wins

Everyone is a winner

Scoring System

Up to you and your committee. See Phil's appendix who has ideas and a scoring sheet.

Sponsors and prizes

- Sponsorship is the teachers' responsibility and is not compulsory.
- Marine Olympics/Marine Safety is an event regularly supported by local businesses.
- Investigate local opportunities, i.e: marine dealers, chandlery stores, fast food outlets, soft drink manufacturers and fuel companies.
- Letters of thanks should be sent to all sponsors.

Figure 21.1 Lunch - the hamburger crew- (the boys were out of shot cooking)

POSSIBLE TIME TABLE

A possible running order of the days events is:

- 0700 hrs — Tents to be erected
  — Areas to be sign posted and roped off if needed
- 0800 hrs — All boats and motors to be at venue
- 0830 hrs — Schools to arrive
- 0850 hrs — Welcome and acknowledgments
- 0900 hrs — Flares and RFD Display
- 0930 hrs — Schools rotated through all activities. The aim is for everyone to have a go.
- 1130 hrs — Competitive events begin

1230 hrs *Lunch can be set at this time or had as you go*

- 1400 hrs — Iron Mariner or Novelty event
- 1430 hrs — Presentation and thanks
- 1450 hrs — Clean up
- 1500 hrs — Depart
- 1600 hrs — Feet up, cleansing wine, soft drink or ale

Discussion point 4: Publicity and Organisation after the day

Some points

- Media Releases can be prepared and sent to all the Media print, radio and television.
- Considerable coverage can be gained!
- Proformas are available in Phil's Appendix

Organising students

- Permission slips, student program / handout, briefings, team nomination forms are great to organise your students.
- This means you don't have to run around looking for teams on the day. Do you need a bus?

Presentations and acknowledgments

Schools are presented with their prizes by representatives of these organisations

The day after

Letters of thanks, debriefing and planning for next year.

Figure 23.1 Organising the media shot

Don't forget to send copies of media etc. to the Newsletter Editor:
Saltwater
14 Milbong Terrace
Ashmore 4214
With photos please

ACTIVITY 1
WHOLE OF GROUP EVENTS

FLARE AND RFD DISPLAY / INTRODUCTION

Description

This activity is usually done right at the beginning of the day and provides a spectacular start. The RFD is introduced as a piece of safety equipment that will be used during the day and that it will be let off on shore to maximise viewing.

The fare display is done to allow students a chance to let off a flare and to see the effects.

Suggested procedures

RFD display

1. Carry RFD to centre of group
2. Make short address to assembly indicating that this is usually done at night, in bad weather and in appalling conditions.
3. Ask for volunteers to throw RFD out pulling the cord to inflate the life raft.
4. When the life raft is inflated, indicate what is missing and how the life raft is boarded.

   Give some background as to survival at sea.
5. Finally have students take it out and moor it beside the boat they are going to jump off.
6. Don't labour the point as assembled crowds need to be entertained not talked to so get into the flare demonstration quickly.

Flare display

1. Ask for volunteers and have assistants hand out flares.
2. Students to wear goggles and protective gloves for demonstration purposes only and briefed by assistant as they follow the instructions on the packet to light the flare.
3. When the flare is alight, other volunteers are asked until about six or seven flares are going.
4. Have the flare assistant supervise each student and dispose of the flare in the rubbish bin full of water provided.
5. The display will be well received if there are plenty of flares. Don't assume that all flares you bring will light and have student supervisors on hand at all time.

MATERIALS AND EQUIPMENT

RFD display

- RFD
- Microphone
- Public address system
- Generator

Flare display

- Orange smoke flares
- Large rubbish bin with water
- Safety goggles
- Protective gloves
- Flare assistant briefed in how to light eh flare as well as care for students and disposal of flare

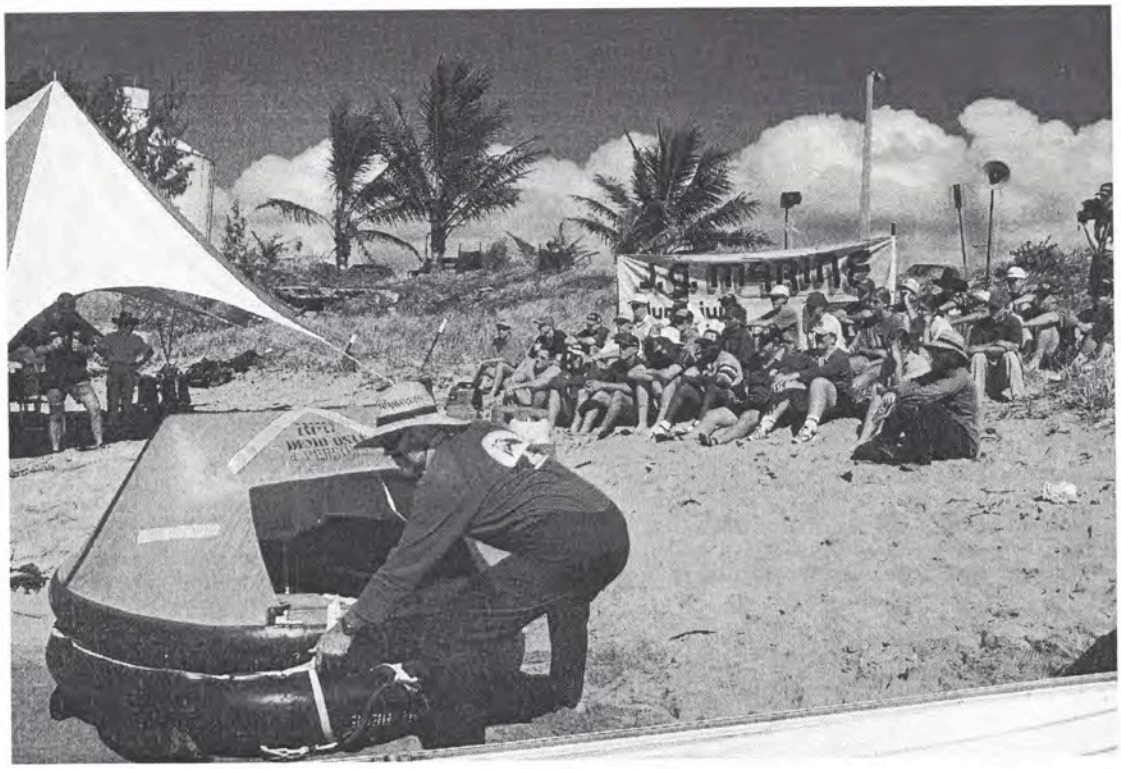

Figure 25.1 RFD demonstration

Figure 25.2 Flare demonstration

FLARE SAFETY

1. Flares and safety
2. Crowd control
3. Counter disaster planning
4. Gloves and welding goggles

Optional Extras

Ambulance display

Students can learn basic first aid and resuscitation procedures form local Ambulance. The ambulance officer may like to explain emergency procedures and give advice.

Suggested briefing for officer

1. Ask the ambulance officer to give a talk on what's in an ambulance
2. Allow students to run the siren and flash the lights to create interest.
3. Don't make the event too long.

Volunteer Marine Rescue Group

Demonstrating show to use VHF and 27 Mz Radios - finding channels showing correct calling procedures and when to use them. A possible event could be where students are given a scenario and asked to give the calling procedure eg: "mayday", "pan pan" and "securitee". This is clearly a land based activity and is great for involving people who are a bit water shy.

Suggested briefing for officer

1. Ask the officer to explain the radios that have been brought. Make sure they all work and are tuned into the days traffic.
2. Allow students the chance to talk over the radio to the base. Have a message written out for them to read such as a simple radio check or request for weather forecast.
3. Again don't make it too long

Firefighting

Marine Olympics/Marine Safety Days are an excellent opportunity to involve local marine related businesses.

Find out how many resources they can commit to the day so you can organise your schedule accordingly.

Students to have a turn at putting out a mock fire at the instruction of the local fire authority. Also gives students an opportunity to look over the fire truck and ask questions.

Outrigger Canoe

Outrigger canoeing is a popular sport in many areas. This activities requires a significant amount of team work and cooperation between team members. The canoes were sent out around a moored boat and back - the first to return to the beach was the winner.

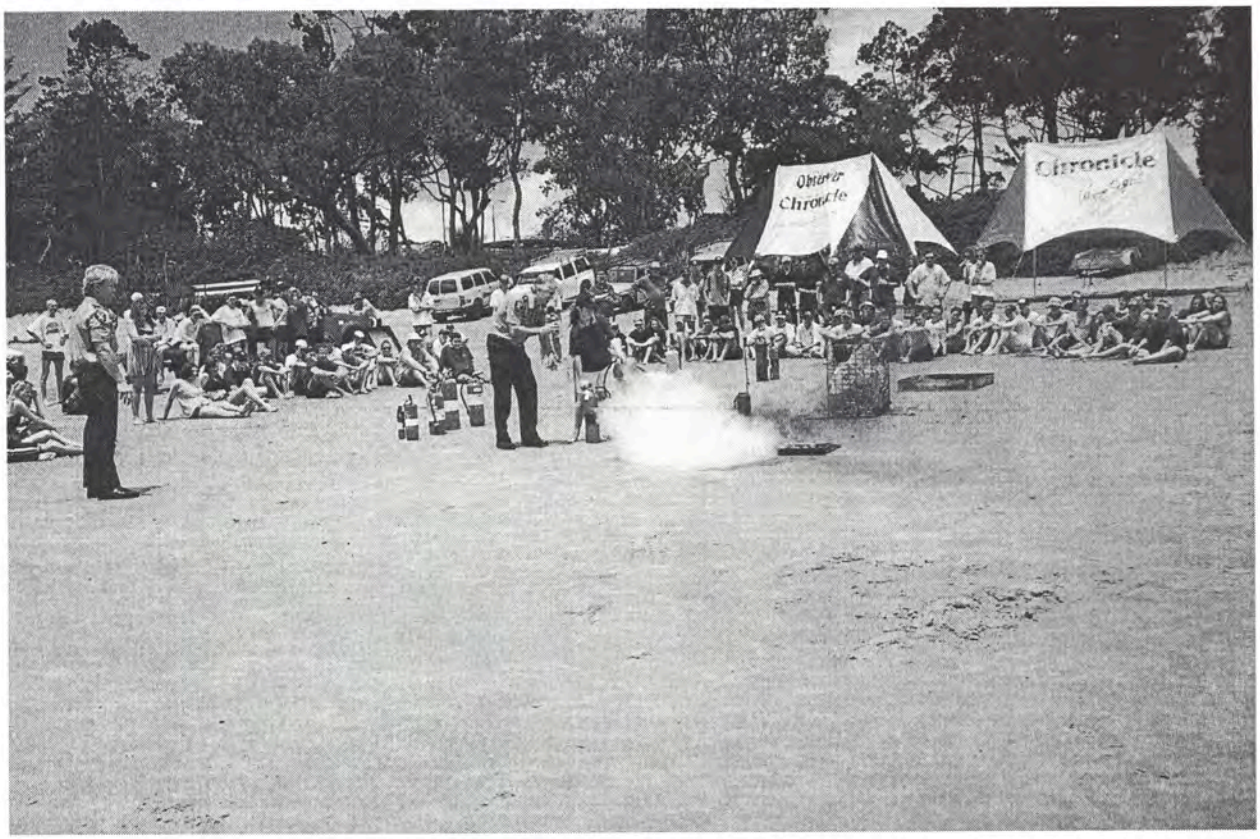

Figure 27.1 Fire fighting display

Figure 27.2 Outrigger canoe race

Activity 2 Personal Water Craft (PWCs)

Description

This activity gives the students a chance to ride the wave runners under the supervision of the water police or boating patrol officers.

It is designed to show that law enforcers enjoy fun at the same time explain the rules.

PWCs are more popular than ever on our waters, particularly among younger boaties. Providing PWCs at Marine Olympics/Marine Safety Day is an opportunity to teach students how to operate PWCs responsibly and safely. Students should be made aware of the differences between jet and outboard power.

PWCs may be provided by a state authority (eg: Queensland Transport) or a dealer may see the activity as an excellent promotion.

* check state regulations regarding licensing, safety equipment and supervision.

Suggested procedures

1. An area is marked by buoys and these craft must operate within the boundaries. Each PWC should have a different direction of travel and be kept separated.
2. Students are told that dangerous behaviour will not be tolerated and fines can be imposed.

   This actually occurred one day (poetic justice) at one event where one of the more of the less co-operative students did not impress the local constabulary.
3. This activity will be the most popular activity with students and has to be controlled. One solution is to have a ticketing or marking system where students are issued a ticket prior to the event.

Materials and equipment

- Marker buoys
- Trailer
- 2 wave runners
- Supervisor
- Suncream
- Life jackets
- Tool kit
- First aid kit

Figure 29.1 This activity gives the students a chance to ride the wave runners under the supervision of the water police or boating patrol officers.

SAFETY SUGGESTIONS

1. Organise police or boating patrol to supervise this.
2. Warn students that they may be fined on the spot for breaches of the boating regulations

ACTIVITY 3
DRIVING SKILLS

DESCRIPTION

Drive a power boat and carry out a series of manoeuvres as directed by the instructor.

Depending on the area, this could be through locally placed navigation marks and speed restricted areas, past anchored craft and passing other vessels either head on or overtaking.

Also, retrieve an object from the water, berth the vessel along side a jetty and each person answer a question on safety regulation and procedures.

Example of a typical events times will be outlined in next edition.

SUGGESTED PROCEDURES

Teams

Consist of 3 members, at least one of which is female.

Scoring

Each team is allocated 20 points and points are deducted from this.

Each student will drive part of the course.

Points deducted:

- (-1) for each navigational mistake and incorrect handling error.
- (- 2) for an incorrect answer.

Requirements

- A course using miniature navigation marks will be set up including speed zones and moored vessels where adequate local navigation marks aren't present.
- See Figure 33,1 Page 33, over.
- A sample course is shown available from Phil Smith, Hervey Bay SHS.

MATERIALS AND EQUIPMENT

- Boat
- Miniature navigation marks
- Object to be recovered from water (eg. life jacket)
- Supervisor
- Suncream
- Life jackets
- First aid kit

Figure 31.1 Driving skills course

SAFETY SUGGESTIONS

1. See DOEM boating document

Activity 4
Navigation Skills

Description

This activity requires students to run a series of compass bearings using a hand bearing compass that will bring them back to a specific point if followed correctly and steered accurately.

Event

Teams

3 members

Scoring

Each team is allocated 20 points and points are deducted for each error. Each student will drive part of the course.

Requirements

3 - 4 Hand bearing compasses.

Time is not a factor in this event.

Navigating at night

- This activity will have students navigate through a course in a dinghy / power boat by using the light colours, rhythms and sequences.
- Red, green, white and yellow marks are placed in the water and a chart is given to the students outlining the light sequences of each mark.
- As the students approach a mark they must consult the chart to obtain the flashing sequence and navigate through the course accordingly.

Event

Teams

3 members

Scoring

Each team is allocated 20 points and points are deducted for each error

Requirements

Anchored floats painted red, green, yellow and white - the colours of the lights on top of markers.

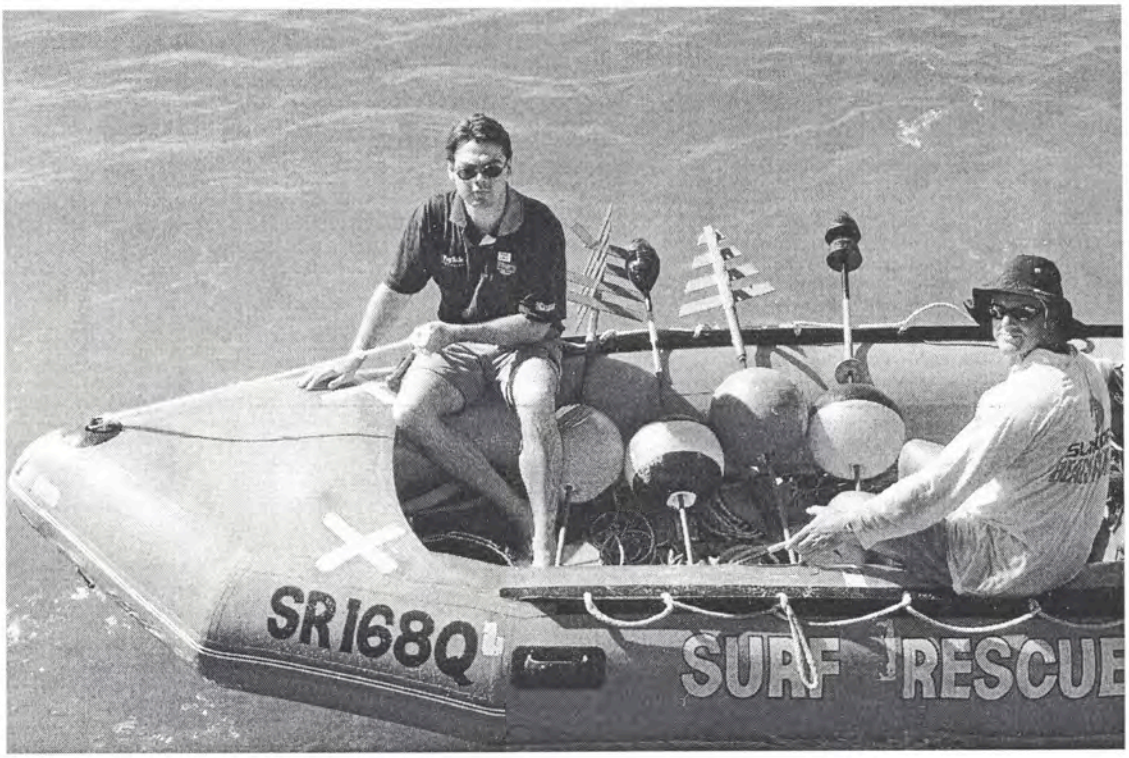

Figure 33.1 Navigation marks for driving skills course or navigation

ACTIVITY 5 LIFE RAFT PROCEDURES

ACTIVITY

- A RFD inflatable life raft is set off at the beginning of the day's activities with an explanation of what happens at sea in the case of an emergency. Students should try capsizing and righting the life raft and climbing aboard while wearing a lifejacket.
- You may be able to find a raft due for servicing to use in this event

EVENT

Students are ferried to an anchored vessel adjacent to the life raft. This is a timed event during which students must don a PFD1 or Coastal Life Jacket, complete a safety jump from the vessel into deep water, swim to the life raft, climb aboard and display a V sheet. The procedure simulates a real life situation of abandoning a vessel at sea.

Teams

Consist of 4 members (depending on the size of raft) with at least one female.

Scoring

In this event, times will be taken with the fastest being awarded 20 points, second fastest 15 points, third 10 points and fourth 5 points.

Time penalty of 5 seconds will be incurred for each incorrect safety jump.

The time stops when all members are within the life raft and the V sheet is cleanly visible.

Requirements

A four person inflatable liferaft, all participants MUST have identical PFDs. Both the raft and vessel should be anchored to keep conditions the same for all teams.

Note:

Teachers should check with local RFD service agents to see if they have a RFD that is ready for servicing that may be used on the day.

More to come in next edition

Figure 34.1 Jump off from boat

SAFETY SUGGESTIONS

1. See boating DOEM document
2. Have Master Class 5 supervise this activity

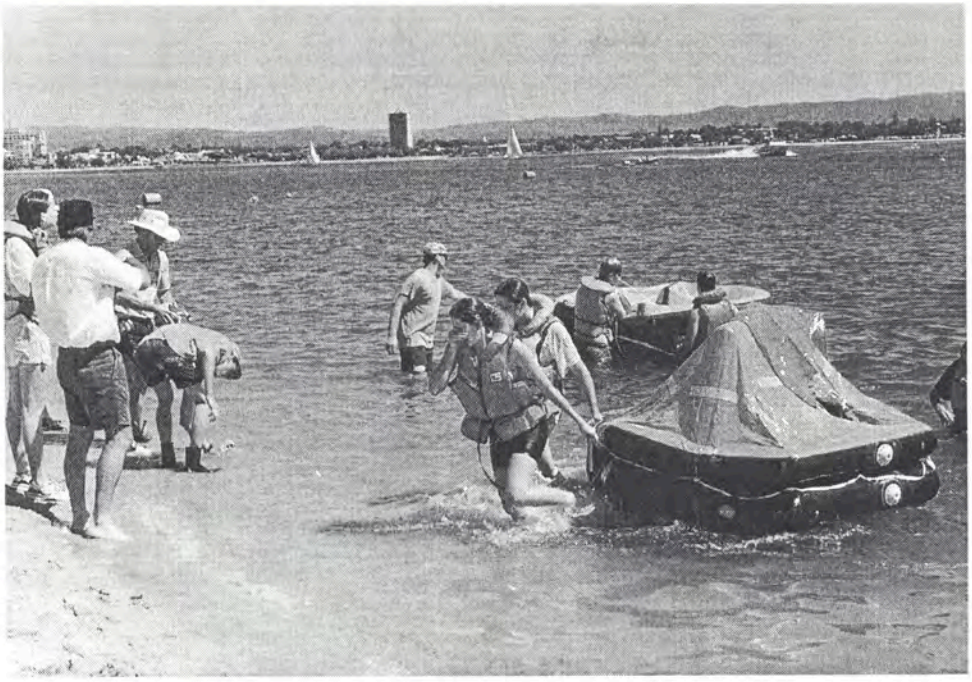

Figure 35.1 Conclusion of activity

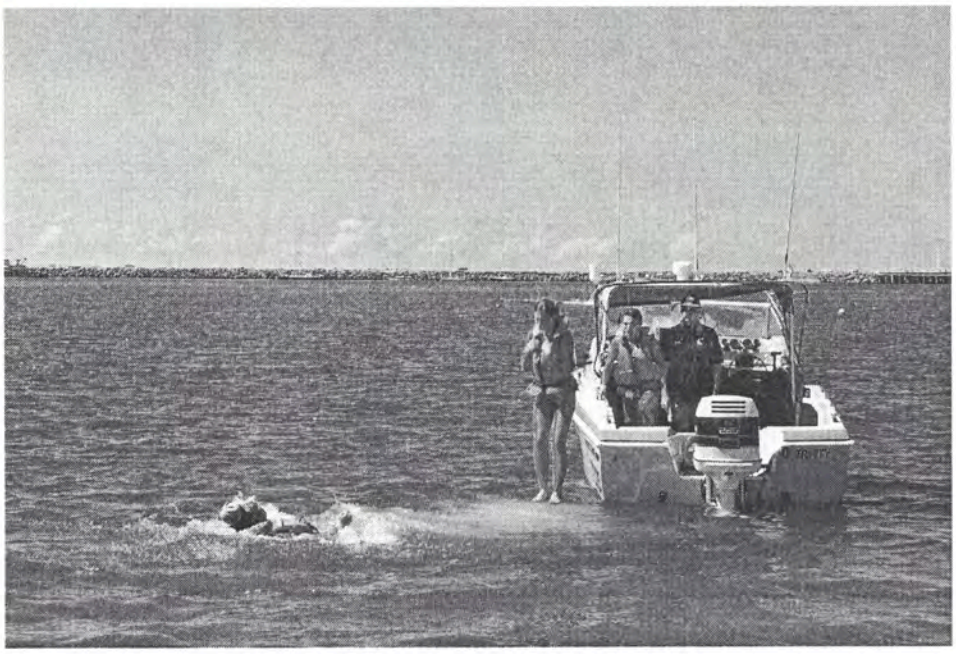

Figure 35.2 Jump off from boat

Activity 6 Swamped Dinghy

Activity

Students have the opportunity to practise capsizing a dinghy and then righting it as they might in a real life situation. The dingy will require a set of oars and two buckets that should be tied to the boat with lanyards. Students should be warned that as the dingy flips over, beware of the gunwale hitting their heads.

Event

As an event the students to row out to a nominated position, capsize, then right the boat and return to the beach. A predetermined mark (possibly the chine) would be indicated as to the amount of water allowed in the boat. Initiative is the name of the game!

The winner is the boat which returns to the beach first will all gear (buckets, oars) and the amount of water in the boat below the mark specified.

Teams

Consist of 3 members with a least one female.

Scoring

In this event, first past the post is awarded 20 points, second 15 points, third 10 points and fourth 5 points.

Teams are not deemed to be finished until all equipment is in the boat and water is below the mark.

Requirements

Teams do a "Le Mans" start. All members to wear PFD's. Boats should be of the same make, size and have positive buoyancy to ensure consistency. Buckets should be sturdy and have a lanyard. The keel of the dinghy must have been visible with gunnels in the water.

Notes

The school's boats usually get a hammering so if one school supplies the boats, chip in for repairs.

Figure 37.1 Photo courtesy Mackay Mercury

SAFETY SUGGESTIONS

1. See boating DOEM safety document

ACTIVITY 7
TROUBLE SHOOTING

ACTIVITY

Students have the opportunity to be guided by a local marine mechanic in maintaining outboard motors and troubleshooting common problems that can happen at sea.

Event

To be competitive, several outboard's are required. Each motor needs to be disabled with a number of faults 4 - 5 that mist be fixed before the motor will start. Students are timed to find the faults, the cowling correctly replaced, start the motor and leave it run for one minute.

Outboard's are 'doctored' and students are required to start the motor which must run for 1 minute. Basic problems such as a fuel line disconnected, closed air vent, choke stuck on, plug lead off, etc are examples. The trouble shooting can be expanded upon consultation with competing schools.

Teams:

Consist of 3 members

Scoring:

First - 20 points;

Second - 15 points;

Third - 10 points;

Fourth - 5 points.

Requirements:

Motors should be the same HP. Motors must run for 1 minute. If it is not possible to obtain the number of motors required, this event can be converted to a timed activity. It is best if one person oversees the activity to ensure consistency.

Notes

Motors and a mechanic may be supplied by a local marine dealer as a promotional exercise .

More to come next edition

Figure 39.1 Trouble shooting

SAFETY SUGGESTIONS

1. See DOEM document

Activity 8
Iron mariner/ maiden?

Event only

The iron mariner may be run as a single participant event or team event involving 2 - 3 participants. However remember, if the iron mariner is run as a single participant event, the responsibility for winning the days competition can rest with this student. If run as a team event the students must work together to achieve a result.

Student(s) must complete a course in the fastest time without assistance.

Suggested course

The mariner on 'go' must don a PFD2, swim out 50 metres to the dinghy, capsize the dinghy, right it, row back to shore, anchor the boat by getting an anchor from a predetermined place and tie a bowline with the anchor on the dry beach. The level of water in the boat would have been indicated as in the swamped dinghy event (usually to the first gunnel).

Team

Either one person or a team of 3

Scoring

First - 20 points;

Second - 15 points;

Third - 10 points;

Fourth - 5 points.

Requirements

"Le Mans" start. First back with all equipment and other conditions as above is the winner. Dinghies to be put in place approximately 50 metres from shore - they may need to be anchored.

Note:

This event usually takes 10 - 15 minutes.

Ask your committee?

- Do we want a competition? Its a pretty torrid individual event.
- Could we have a novelty event?

  Can you have an egg and spoon race as well?

  How about a snorkelling race?
- Could it be a teams race?

Figure 41.1 Ready to go

ASK YOUR COMMITTEE?

- Do we want a competition? Its a pretty torrid individual event.
- Could we have a novelty event?

  Can you have an egg and spoon race as well?

  How about a snorkelling race?
- Could it be a teams race?

SAFETY SUGGESTIONS

1. See DOEM document

ACTIVITY 9
KNOT TYING

ACTIVITY

Knots and rope work are essential features of boating. It is highly desirable students are able to tie knots to secure vessels and equipment as well as towing and joining ropes. This activity has to be supervised by a person familiar with knots and ropes.

Students are to tie a series of 5 knots for example: bowline, single and double sheet bend, figure of 8, reef knot, round turn, 2 half hitches and clove hitch. Students will have 3 to 4 pieces of rope and a bar to start the knots.

Event

Teams of three students will be required to tie five knots as instructed. Each team will be timed with the fastest and the correct the winner. Alternatively, each knot can be tied by all team members with the lowest time being their entry.

Team

Consists of 3 members, with a least one female.

Scoring

This is a timed event with the lowest time gaining first place points.

First - 20 points;

second - 15 points;

third - 10 points;

fourth - 5 points.

Requirements

4 - 5 pieces of rope

bar or anchorage point.

Figure 42.1 Using a bollard

Figure 43.1 Using whatever is handy at the time

APPENDIX

1. School nomination form
2. Parents permission form
3. Events score sheet
4. Prizes
5. Letter of thanks
6. Scoring system
7. Equipment list
8. Media release 1
9. Media release 2
10. Media release 3
11. Media release 4
12. Media release 5

ALL SUGGESTIONS FOR IMPROVEMENT TO:

The Publicity Officer MTAQ
14 Milbong Tce Ashmore 4214
Telephone: (07 5597 2806
Fax: (07) 5539 41867

APPENDIX 1

MARINE OLYMPICS

School Nomination Form: _____
(School name)

Students may nominate for only **one (1)** of the events!

A. Driving Test
1. _____
2. _____
3. _____
(At least one female)

B. Liferaft Procedures
1. _____
2. _____
3. _____
(At least one female)

C. Knot tying
1. _____
2. _____
3. _____
(At least one female)

D. Swamped Dinghy
1. _____
2. _____
3. _____
(At least one female)

E. Troubleshooting
1. _____
2. _____
3. _____
(At least one female)

F. Team Rowing
1. _____
2. _____
3. _____
(At least one female)

G. Fire fighting
1. _____
(Male or female)

H. Flares
1. _____
2. _____
3. _____
(At least one female)

APPENDIX 2

TO: **Parents/Guardians and students of Year 12 Marine Studies/Education**

RE: **Marine Olympics on** _____ (date)

Marine Olympics is an activity day that gives students the opportunity to participate in a range of boating and emergency procedures that the current Marine Studies course does not provide for, or schools do not normally have access to.

Students participate in a range of boating activities, learn first hand about safety procedures as well as interacting with marine authorities.

The day culminates in the competitive events being run after all have had hands on experience at the various events.

The Marine Olympics is an initiative of _____

Students must: wear the Marine Olympic T-shirt;
ensure they are adequately protected from the sun with hat and sunscreen;
follow instruction given by organisers, other teachers and maritime officers;
bring swimmers and a towel.

Where: _____
When: _____

A canteen will be operating on the beach - drinks, chips, sausage sizzle etc, so students will not need to leave the beach.

SAFETY

All possible care must be taken to ensure safety;
Unlicensed students are not to drive speedboats unsupervised;
All students in boats must be wearing lifejackets;
No swimming near boating activities;
A safety boat will be in attendance;
NB Students who wish to ride the Waverunners alone must produce their recreational ships master's licence at the time of the ride!!!

Students are asked to assist in the setting up and pulling down of tents etc.

A medical form should have been filled in. If one has not already been forwarded for Marine Studies in 1997 or conditions have changed, please amend ASAP.

Yours on the water

_____ _____

Permission / acknowledgment form
for Marine Olympics

I acknowledge and give permission for _____ to attend the Marine Olympics.

In the event of a medical emergency I appoint the teacher in charge as my agent. I agree to pay medical costs incurred, and if prescribed by a Medical Practitioner the use of an anaesthetic and blood transfusion if necessary.

APPENDIX 3

1997 _____
MARINE OLYMPICS
EVENT SCORE SHEET

EVENT: _____

SCHOOL	TIME / PLACE	POINTS

Event Supervisor: .....

APPENDIX 4

MARINE OLYMPICS
PRIZES

1st

8 hp Outboard Motor from
valued at

2nd

2.5 hr Reef excursion from
2 life jackets from
40 litres fuel from
1 pair paddles from
Value: $

3rd

Education textbooks from
$50 voucher from
1 fire blanket from
Value: $

4th

Water test kit from
Books from
1 fire blanket from
2 life jackets from
Value: $

5th

$100 voucher from
2 life jackets from
Anchor, rope and V sheet from
Tool Kit from
Value: $

APPENDIX 5

EXAMPLE LETTER OF THANKS

Date

Name
Address

Dear

This is just a short note of thanks for your involvement in the ..... Marine Olympics which were held on .....

The day was a tremendous success with students from ....., ..., ... and ..... High Schools gaining valuable skills in boating and emergency procedures through the involvement of Water Police, Fire Services, Teachers and the many volunteers.

Winner of the ..... was ..... High School.

Once again thank you for your support of the Marine Olympics concept and we look forward to your continued involvement.

Yours sincerely

A Organiser
..... Representative
Marine Teachers Association

SCORING SYSTEM

Each event except for the "Waverunners" will have maximum available points of 20.

- **Driving Skills** /20
  Each team will start with 20 points and points will be deducted for incorrect procedures or driving errors.

- **Knots** /20
  A time event in which 5 knots will be shown, the team with the fastest time will be the winner, if knots are incorrectly done then a penalty of 10 seconds per incorrect knot will be added to the original time!

- **Liferaft procedures** /20
  Another time event in which students perform the activity in the shortest possible time.

- **Swamped dinghy** /20
  Direct open competition - first past the post.

- **Troubleshooting** /20
  Direct open competition - first past the post.

- **Iron Mariner** /20
  Direct open competition - first past the post.

- **Outrigger Canoes** /20
  Direct open competition - first past the post.

In all except the driving skills points will be awarded as:

1st	20 pts
2nd	15 pts
3rd	10 pts
4th	5 pts

APPENDIX 7

ITEM	NUMBER	SUPPLIER	COMMENTS
Outboard motors and fuel tanks			
Drums for outboards			
Boats			
Oars			
Anchors with rope			
Buckets with lanyards			
Jet skis / Wave runners			
Fuel and funnel			
Tickets for jetskis (books of 100)			
Lifejackets PFD1			
Lifejackets other			
First Aid Kit			
VHF - hand held radios			
Mobile phone			
Tents and marquees			
Hammer - sledge			
Electrical leads			
Power board			
PA system			
Roving microphone			
Tables			
Charts			
Esky			
Ice			
Canteen - food and drinks			
Refuse bins			
Wire and twine			
Whiteboard			
Marking Pens (permanent and water)			
Stop watches			
Whistles			
Hooter / air horn			
Star pickets			
Signage for events			
Safety glasses (flares)			
Gloves (flares)			
Flares - orange			
Flares - red			
Flares - parachute dummy			
Fire fighting extinguishers			
Knot tying tables and apparatus			
Rope			
Navigation aids, ropes and blocks			
Floats (jetskis and S/F line)			
Compasses			
Camera			
Video			
B&FP Vessels			
Water Police vessel			

APPENDIX 8

EXAMPLE MEDIA RELEASE 1

MARINE OLYMPICS FOR .....

..... will be hosting the ..... Regional Marine Olympics for high school students on ..... at ..... from 8.30 am to 3.30 pm.

Schools will be vying for prizes valued in excess of $....., including an 8hp outboard motor, books from ....., as well as boating and safety equipment donated by local companies.

The concept is primarily aimed at Marine Students - boat users of tomorrow - and gives students the opportunity to actively participate in a range of boating and emergency procedures not currently accessible to schools.

The day is a joint initiative of .....

Students will be participating from schools in .....

Events include Boat driving skills in larger vessels, Navigation skills, Liferaft procedures, Swamped dinghy, Troubleshooting with outboard motors and an Outrigger canoe race.

❖❖❖❖❖❖❖❖❖❖❖❖❖

Acknowledgments and thanks for the quality prizes on offer are extended to .....

APPENDIX 9

EXAMPLE MEDIA RELEASE 2

MARINER AUSTRALIA SUPPORTS BOATING EDUCATION

Mariner Australia have donated an 8hp outboard motor as first prize in the ..... Marine Olympics to be held on ....., at ..... from ..... am to .....pm.

The Marine Olympics is an activities day that involves school students in simulated situations and correct procedures for boating activities.

One of the activities is "Driving Skills". In this students are given the opportunity to drive larger vessels at speed, conducting manoeuvres through navigation aids and simulated channels plus retrieving an object from the water. The students are marked on their practical ability as well as questioned on safety aspects.

In another of the activities, "troubleshooting", students must solve problems in order to get a motor going. The problems are basic such as a fuel line disconnected, closed air vent, choke stuck in, plug leads off. Students race against each other to be the first to have their motor running.

All activities are run under the direction of Queensland Transport, Queensland Boating and Fisheries Patrol, and the Water Police who are ably assisted by Marine Studies teachers and volunteers.

❖❖❖❖❖❖❖❖❖❖❖❖❖

Acknowledgments and thanks for the quality prizes on offer are extended to .....

APPENDIX 10

EXAMPLE MEDIA RELEASE 3

STUDENTS KEEN TO WIN

One hundred and seventy students from ..... regional high schools will be competing for the major prizes of an 8hp ..... outboard motor, books from ....., as well as boating and safety gear donated by local companies.

The day is dedicated to educating the boat users of tomorrow through teaching skills they may not have had an opportunity to learn in school but in an emergency situation, would be invaluable.

The activities allow students to experience other forms of boating, learn more about emergency procedures and interact with marine authorities.

The day will be divided into three parts -

- **general activities where all students have the chance of hands-on experiences;**
- **a flares display where selected students are able to set off flares;**
- **fire fighting demonstration; and finally**
- **the competition involving teams of students from the five schools.**

Marine authorities and Water Police, along with Marine Studies teachers and volunteers will be available to assist and organise the day. Events include:

- **boat driving skills in larger vessels;**
- **navigation skills;**
- **life raft procedures;**
- **swamped dinghy;**
- **trouble shooting with outboard motors;**
- **team rowing; and**
- **an outrigger canoe.**

Don't forget, ...(date) at .....(venue), from 8.30am to 3.30pm.

APPENDIX 11

EXAMPLE MEDIA RELEASE 4

Schools set to compete in Olympics

Marine Studies students from around ..... have been preparing for the Marine Olympics to be contested at .....

Up for grabs are prizes valued in excess of $....., including a ..... 8hp outboard motor from ....., books from ....., as well as boating and safety equipment donated by local companies.

The day will be divided into four sections -

- **FIRSTLY - general activities where student have 'hands on' experience in simulated circumstances and are briefed on what to do in emergency situations. This section gives students the chance to practise the procedures before the competition;**
- **SECONDLY - a flares display in which students from each school will have the opportunity to ignite a flare under supervision. Flares will also be ignited aboard a vessel to show students the visual impact at sea and fire fighting;**
- **THIRDLY - where individual schools compete against the clock or points are deducted for incorrect procedures in life raft procedures, driving skills and knot tying events.**
- **FINALLY - where schools compete directly against one another and the first past the post wins the points. These events included swamped dinghy, trouble shooting for outboard problems, team rowing and an outrigger canoe race!**

Marine authorities and Water Police, along with Marine Studies teachers and volunteers will be available to assist and organise the day and aim to give an awareness of the correct procedures in emergencies for our boating users of tomorrow.

Don't forget, ...(date), at .....(venue) from 8.30am to 3.30pm.

EXAMPLE MEDIA RELEASE 5

Just Another Day at the Beach

....(number) government departments united to promote boating safety and emergency procedures for high school students at ..... Marine Olympics.

Officers from Boating and Fisheries Patrol (DPI), Queensland Transport, Water Police, Fire Services and Marine Studies teachers from the Education Department as well as volunteers put students through their paces at ..... on .....(date).

During a highly successful day, the expertise and instruction of marine officers in other government departments was utilised for the benefit of ..... high school students.

The day was divided into four sections:

- First were general activities where students had "hands on" experience in simulated circumstances and were briefed on what to do in emergency situations. This section gave students the chance to practise the procedures before the competition.
- Second was a flares display in which students from each school had the opportunity to ignite a flare, again under supervision. Flares were also ignited aboard a vessel to show students the visual impact at sea. Students were also instructed on fires and fire extinguishers, and participated in a demonstration.
- In the third section, individual schools competed against the clock or had points deducted for incorrect procedures in Life Raft Drill, Driving Skills and Knot Tying.
- In the final section, schools competed directly against each other and it was first past the post to get the points. These events included Swamped Dinghy, Troubleshooting for outboard motor problems and Team Rowing.

Up for grabs were prizes valued in excess of $..... Acknowledgments and thanks are extended to .....

Students were the winners on the day, learning valuable skills and procedures to follow should an emergency occur on the water.

Winners of the events were:

Trouble Shooting	.....
Team Rowing	.....
Driving Skills	.....
Swamped Dinghy	.....
Knot Tying	.....
Life Raft Drill	.....

Overall placings for the day were:

1st	.....
2nd	.....
3rd	.....
4th	.....
5th	.....

APPENDIX 13

CHECK LIST

Venue - suitability	-	Exposure to wind, depth of water at stages of the tide
	-	Access to schools, e.g distance
	-	Council approval
	-	Amenities, e.g toilets etc.
Tents and shelter	-	Who supplies - time
	-	Who to erect
Schools to provide	-	Dinghies how many?
	-	same type
	-	Motors
	-	Safety Equipment
	-	Anchors
State Authorities - input	-	Large vessel for driving skills
	-	Rescue craft - IRS
	-	Supply of flares
	-	Supply of liferaft
Scoring	-	Board to show program scores
	-	Stop watches
	-	Scorer
Sponsorship	-	State Manager of an Outboard firm
	-	Local Dealers
	-	Local Chandlery
	-	Local Charter Servers
	-	Supply liferaft
Volunteer Groups	-	Help run and organise
	-	Supply vessel
	-	supply liferaft
	-	Run knot tying
Fire Services	-	Fire display at certain time
Food	-	If shop not adjacent to venue, food venue
First Aid	-	Kit and Certificate Holder on standby
Running Order	-	Will times fit?
	-	Will all students get a go? - rotation.