Section 5B: AUSI Scuba Teaching Guidelines

LEVEL VI SCUBA DIVER (Level VI Pro) – July 2008

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- **AUSI MEDICAL HISTORY FORM**
- **AUSI LEVEL VI SCUBA DIVER PARTICIPATION AGREEMENT**
- **AUSI LEVEL VI SCUBA DIVER TRAINING RECORD**
- **AUSI LOST DIVER ASSESSMENT FORM**
- **AUSI SCUBA RESCUE ASSESSMENT FORM**
- **AUSI LEVEL VI DIVE LEADERSHIP ASSESSMENT FORM**
- **AUSI LEVEL VI DIVE BRIEF ASSESSMENT FORM**
- **AUSI LEVEL VI SCUBA DIVER THEORY TEST**
- **AUSI PROFESSIONAL ANNUAL RENEWAL FORM**

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COURSE PLANNING

The AUSI Level VI (Dive Leader) Scuba Diver course is designed to train divers to:

1. Act as an assistant for AUSI Instructors, however ratios cannot be increased,
2. Organise and conduct scuba diving activities for certified divers, and
3. Act as an underwater guide for certified scuba divers.

NOTE: To practice activities 2 & 3, AUSI Level VI Professional (Dive Master) requirements must be met.

The course has five components:

1. Theory - eight presentations, lesson reviews and theory test,
2. Practical Skills - four sessions,
3. Ocean Skills & Scenarios - three ocean sessions, and
4. Assessment - one dive leadership for divers.

Instructor

The course can only be conducted by an AUSI Level VI Scuba Instructor or higher.

Ratios

1. Theory 12:1,
2. Practical 8:1 or 12:1 with the assistance of a lower level AUSI Scuba Instructor, and
3. Ocean 8:1 or 12:1 with the assistance of a lower level AUSI Scuba Instructor.

Prerequisites

Prerequisites for the AUSI Level VI Scuba Diver course are:

1. Be at least 16 years of age,
2. Be medically fit to scuba dive, use the *AUSI Medical History Form* or approved equivalent,
3. Be a certified AUSI Level V Scuba Diver or approved equivalent, and
4. Have completed at least 25 scuba dives in varying conditions.

Before conducting the course ensure that students meet all the prerequisites and sign the *AUSI Level VI Scuba Diver Participation Agreement*.

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Materials

During the course it is compulsory for the instructor to use the following:

1. **AUSI Dive Master Manual** or relevant AUSI Course Notes,
2. *AUSI Medical History Form* or approved equivalent,
3. *AUSI Level VI Scuba Diver Participation Agreement,*
4. *AUSI Level VI Scuba Diver Student Training Record,*
5. *AUSI Level VI Scuba Diver Theory Test,*
6. *AUSI Level VI Assessment Forms,*
7. **AUSI Certification Sheet**, and
8. *AUSI Professional Annual Renewal Form***.**

Items 1 & 7: Can be purchased from AUSI Head Office.

In lieu of Item 1: AUSI Level VI Scuba Course Notes and lesson reviews (AUSI Scuba Learning Modules 15, 16, 17, 18, 19, 20, 21 & 22) can be downloaded from www.ausi.com.au.

Items 1, 2, 3, 4, 5, 6 & 8: Can be photocopied from the Course Materials section of the AUSI Instructor Manual or registered instructors can download an AUSI Level VI Scuba Instructor Pack from www.ausi.com.au.

Equipment

Each instructor and candidate shall use the equipment listed below during all practical training and ocean diving throughout the course:

1. Mask, snorkel and fins,
2. Approved air cylinder and valve (Australian Standard AS 2030.1 or equivalent),
3. Buoyancy control device with scuba feed inflator designed to maintain the head above water surface when inflated (separate back pack, if appropriate),
4. Regulator with a balanced first stage,
5. Alternate air source,
6. Depth and cylinder pressure gauges, timing device and compass,
7. Adequate exposure protection with appropriate quick release weight system, and
8. Compass and knife.

Note: Equipment list is as required by Australian Standard AS 4005.1-2000.

When training involves the use of a boat the boat must comply with the requirements of the relevant regulatory authority, must be attended at all times by a competent attendant and the following shall be available:

1. Safety equipment as required by the relevant regulatory authority,
2. Highly visible float with mermaid line,
3. Descent/ascent line incorporating a safety stop facility,
4. Notebook and pen,
5. Datum marker eg GPS or shot line, and
6. Spare fully charged scuba unit.

During all diving operations, the following emergency first aid equipment shall be readily available along with a competent operator:

1. Appropriate first aid kit with supplies suitable for treating diving injuries, and
2. An oxygen resuscitator capable of delivering 100% oxygen with an adequate supply of oxygen taking into account location and access to medical facilities.

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Suggested Timetables

Below is a suggested 5-day full time course timetable:

Day 1	09:00	Introduction
	10:00	**Theory 1 - Dive Master Duties**
	12:00	Lunch
	13:00	Practical Training Session 1 - Personal Skills Evaluation
	15:00	**Theory 2 - Conducting Group Scuba Dives**
	18:00	Dinner
Day 2	08:00	**Theory 3 - Cylinders & Compressors**
	10:00	Practical Training Session 2 - Diver Preparation
	12:00	Lunch
	13:00	**Theory 4 - Scuba Mechanics**
	15:00	Ocean Session 1 - Underwater Navigation & Fitness Tests
	18:00	Dinner
	19:00	Practical Training Session 3 - Field Repairs & Cylinder Filling
Day 3	08:00	Practical Training Session 4 - Rescues & Fitness Swims
	10:00	**Theory 5 - Understanding Decompression**
	12:00	Lunch
	13:00	Ocean Session 2 - Lost Diver Scenarios & Scuba Rescues
	15:00	**Theory 6 - Dive Tables and Computers**
Day 4	08:00	Practical Training Session 5 - Dive Briefs
	10:00	**Theory 7 - Basic Seamanship**
	12:00	Lunch
	13:00	Ocean Session 3 - Practical Dive Leadership
	15:00	**Theory 8 - Basic Navigation**
Day 5	08:00	Assessment - Dive Leadership with Divers
	11:00	Assessment - Theory Test
	13:00	Lunch
	14:00	Assessment - Miscellaneous
	15:00	Theory Test Review
	16:00	Debrief

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Below is a suggested double weekend course timetable:

Friday	19:00	Introduction
	20:00	**Theory 1 - Dive Master Duties**
Saturday	08:00	**Theory 2 - Conducting Group Scuba Dives**
	10:00	Practical Training Session 1 - Personal Skills Evaluation
	12:00	Lunch
	13:00	**Theory 3 - Cylinders & Compressors**
	15:00	Practical Training Session 2 - Diver Preparation
	18:00	Dinner
Sunday	08:00	**Theory 4 - Scuba Mechanics**
	10:00	Ocean Session 1 - Underwater Navigation & Fitness Tests
	12:00	Lunch
	13:00	**Theory 5 - Understanding Decompression**
	15:00	Practical Training Session 3 - Field Repairs & Cylinder Filling
Friday	19:00	**Theory 6 - Dive Tables and Computers**
	21:00	Practical Training Session 4 - Rescues & Fitness Swims
	12:00	Lunch
Saturday	08:00	Practical Training Session 5 - Dive Briefs
	10:00	**Theory 7 - Basic Seamanship**
	12:00	Lunch
	13:00	Ocean Session 3 - Practical Dive Leadership
	15:00	**Theory 8 - Basic Navigation**
Sunday	08:00	Assessment - Theory Test
	10:00	Ocean Session 2 - Lost Diver Scenarios & Scuba Rescues
	12:00	Lunch
	13:00	Assessment - Dive Leadership with Divers
	15:00	Theory Test Review
	17:00	Debrief

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CLASSROOM PRESENTATIONS

Introduction

The following materials are required for the introductory session:

1. **AUSI Dive Master Manual** or relevant AUSI Course Notes,
2. *AUSI Medical History Form or approved equivalent,*
3. *AUSI Level VI Scuba Diver Participation Agreement, and*
4. *AUSI Level VI Scuba Diver Training Record.*

During the introductory session, which must be done before any practical sessions are conducted, the instructor is required to do the following:

1. Have student complete the *AUSI Medical History Form* or approved equivalent and carefully check,
2. Have student complete and sign the relevant sections of the *AUSI Level VI Scuba Diver Participation Agreement,*
3. Sight evidence that the student meets all the prerequisites for the course,
4. Have student fill-in and sign the prerequisite section of the *AUSI Level VI Scuba Diver Training Record,*
5. Counter sign the prerequisite section of the *AUSI Level VI Scuba Diver Training Record,*
6. Explain the AUSI Pathway and where the current course fits in,
7. Explain the structure of the AUSI Level VI Scuba Diver Course,
8. Explain the requirements of the AUSI Level VI Scuba Diver certification
9. Explain the requirements of the AUSI Level VI Professional certification,
10. Discuss the timetable for the course
11. Explain the requirements for certification, and
12. Explain any relevant renewal requirements.

The recommended text books for those students who wishing to do further reading are:

1. **Recreational Scuba Diving** – Sinclair & Kenley,
2. **Oxygen First Aid** - J. Lippmann,
3. **The DAN Emergency Handbook** - J. Lippmann & S. Bugg,
4. **The Sport Diving Medical** – Parker,
5. **Scuba Safety In Australia** - Wilks, Knight & Lippmann, and
6. **Diving Medicine For Scuba Divers** - Edmonds, McKenzie & Thomas

All texts are available from AUSI Head Office.

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Theory Topics

The AUSI Level VI Scuba Diver course consists of seven theory presentations and lesson reviews that should be conducted in accordance with the Classroom Presentation section of the **AUSI Instructor Course Notes** and a theory test.

The topics covered are detailed below:

Dive Master Duties	(*AUSI Scuba Learning Module 15*)
Conducting Group Scuba Dives	(*AUSI Scuba Learning Module 16*)
Cylinders and compressors	(*AUSI Scuba Learning Module 17*)
Scuba Mechanics	(*AUSI Scuba Learning Module 18*)
Understanding Decompression	(*AUSI Scuba Learning Module 19*)
Dive Tables and Computers	(*AUSI Scuba Learning Module 20*)
Basic Seamanship	(*AUSI Scuba Learning Module 21*)
Basic Navigation	(*AUSI Scuba Learning Module 22*).

The **AUSI Dive Master Manual** or relevant AUSI course Notes must be made available to the students during the theory sessions. After the theory sessions have been attended the students must complete the lesson review for each session.

These notes are also available in A4 for the production of overhead transparencies, contact AUSI Head Office.

The *AUSI Level VI Scuba Diver Training Record* is to be updated at the end of every theory session.

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PRACTICAL SKILLS TRAINING

Practical Skills Sessions

All practical skills training is to be conducted in accordance with the Practical Skills Training section of the **AUSI Instructor Course Notes**.

The AUSI Level VI Scuba Diver course requires four practical skills sessions. The sessions are described in detail below. The skills are numbered using the following system:

<LEVEL>**.**P**.**<SESSION #>**.**<SKILL #>

where:

<LEVEL> is the AUSI Scuba Diver Course Level;

P represents that it is a practical skill;

<SESSION #> is the practical skills session number; and

<SKILL #> is the a sequential number starting with the first skill of the session

eg VI.P.1.4 is skill four of the first practical skills session in the AUSI Level VI Scuba Diver course

The aims of the sessions are to train the Level VI Scuba Diver in the basic skills that they need to fulfil their role as a diving professional. The practical skill sessions to be covered are:

Session 1 - Personal Skills Evaluation,

Session 2 - Diver Preparation,

Session 3 - Cylinder Filling & Field Repairs

Session 4 - Dive Briefs, and

Session 5 - Fitness Swims & Rescues.

The **AUSI Level VI Scuba Instructor Cue Card** contains a summary of the skills to be performed.

Instructors must use appropriate *AUSI Assessment Forms*.

The *AUSI Level VI Scuba Diver Training Record* is to be updated at the end of the practical session.

NOTE: 1. Instructors must never exceed the maximum instructor to student ratios as described on page 1 and should reduce ratios where conditions or student ability dictates to do so.

2. Equipment used by instructors and students must comply with that outlined on page 2 of these teaching guidelines.

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Practical Skills Session 1

PERSONAL SKILLS EVALUATION

VI.P.1.1 Equipment Assembly

1. Watch how students assemble and handle their equipment

VI.P.1.2 Buddy Checks

1. Have students perform thorough buddy checks

VI.P.1.2 Step Entry

1. Have students perform a step entry where depth permits to ensure they are competent at this skill

VI.P.1.4 Neutral Buoyancy Check

1. Have students demonstrate neutral buoyancy on the surface without any air in their buoyancy compensator

VI.P.1.5 Regulator Skills

Have students demonstrate:

1. Regulator clearing - both methods
2. Regulator recovery
3. Regulator exchange

VI.P.1.6 Mask Skills

Have students demonstrate:

1. Partial mask clear
2. Full mask clear
3. Mask removal and replacement
4. Combined regulator and mask removal and replacement
5. Swim without a mask

VI.P.1.7 Buoyancy Control Exercises

Have students demonstrate:

1. Fin pivot
2. Mid-water hover

VI.P.1.8 Descent & Ascent on a Line

1. Have students demonstrate a descent and ascent on a line

VI.P.1.9 Snorkelling Skills

Have students demonstrate:

1. Duck diving
2. Finning technique
3. Clearing techniques

VI.P.1.10 Out of Air Drill

1. Have students demonstrate and practice the out of air drill
2. Have students demonstrate the out of air drill without a mask
3. Test students with out of air signal without warning

VI.P.1.11 Exit & Equipment Disassembly

1. Watch how students exit and disassemble their equipment

NOTE: 1. For details of these skills see the AUSI Level II Scuba Diver Practical Training Sessions.
2. Skills must be performed to instructor standard.

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Practical Skills Session 2

DIVER PREPARATION

VI.P.2.1 Qualifications and Experience Check

1. Present students with at least two divers, can be other students, wishing to go on a charter dive

VI.P.2.2 Fitting Equipment

1. Have students fit their divers with standard hire equipment

VI.P.2.3 Neutral Buoyancy Checks

1. Have students complete a neutral buoyancy check on their divers
2. Ensure that students do not overweight their divers

VI.P.2.4 Gear Up and Equipment Checks

1. Have students assist their divers with gearing up
2. Ensure that divers make mistakes
3. Have student do final checks on divers equipment

VI.P.1.5 Debrief

1. Ensure adequate time is allowed for debriefing students
2. Ensure that all problems encountered are discussed so all students can learn

Practical Skills Session 3

CYLINDER FILLING AND FIELD REPAIRS

VI.P.3.1 Cylinder Filling

1. Present students with some cylinders to fill and try to simulate the following
   (a) Out of test
   (b) Steel & aluminium
   (c) Different valve types (DIN, K & J)

VI.P.3.2 Repairing Snorkelling Equipment

1. Replacing mask straps, clips and seals
2. Replacing snorkel keepers, purge valves and mouthpieces
3. Replacing fin straps.
4. Threading weight belts and buckles

VI.P.3.3 Repairing Scuba Equipment

1. BC - servicing valves & threading cylinder retaining straps
2. Regulators:
   (a) Replacing mouth pieces
   (b) Replacing low pressure hoses
   (c) Replacing high pressure hoses
   (d) Replacing swivel o-rings
   (e) Checking regulator line pressure
   (f) Adjusting second stages
2. Cylinder - replacing valve o-ring

Practical Skills Session 4

DIVE BRIEFS

VI.P.4.1 Presenting a Dive Brief

1. Have students present a dive brief for certified divers on a site which they are familiar with
2. Have students present a dive brief for certified divers on a site which they are unfamiliar with

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Practical Skills Session 5

SWIMS & RESCUES (in pool or confined water)

VI.P.5.1 Fitness Swims

1. Students are to swim 200 metres (220yds) in 5 minutes or less without stopping or the use of any aids
2. Students are to tread water for 10 minutes
3. Students are to swim 800 metres (880yds) using snorkelling equipment whilst neutrally buoyant in 16 minutes or less without stopping

VI.P.5.2 Tired Diver Tows

1. Straight arm tow
   a) Rescuer secures tired diver by cylinder valve, regulator first stage or buoyancy compensator
   b) Rescuer tows tired diver 25 metres (30yds) keeping the securing arm straight
2. Doh-cee-doh tow
   a) Rescuer secures tired diver by placing their right arm down between divers right arm and arm pit
   b) Rescuer tows tired diver 25 metres (30yds)
3. Wheel barrow tow
   a) Tired diver lays on back and places feet on rescuers shoulders
   b) Rescuer puts arms over and around tired divers legs
   c) Rescuer pushes tired diver 25 metres (30yds) whilst snorkelling on their front

NOTE: During tired diver exercises rescuers should be constantly reassuring patient, making diver positively buoyant by use of the buoyancy compensator and/or ditching the weight belt.

VI.P.5.3 Panicking Diver on Surface

1. Rescuer approaches diver but keeps out of reach
2. Rescuer gives loud verbal instructions to inflate BC, dump weight belt & put regulator in mouth
3. If diver has followed instructions rescuer can approach, secure and calm diver
4. If diver doesn't follow instructions rescuer can approach diver from the rear underwater
5. Secure diver from the rear, dump weight belts, inflate BC's and calm diver

VI.P.5.4 Rescue of Unconscious Diver on Surface

1. Call for assistance
   a) Ask to keep eye on patient
   b) Ask to wait in case help is needed for removing patient or calling ambulance
2. Head up entry
3. Head up surface approach
4. Secure the patient
5. Establish positive buoyancy
   a) Dump weight belts first
   b) Inflate BC's
6. Call for help
   a) Who to call (what number)
   b) Location
   c) Patient details (eg one male diver - unconscious)
   d) Ask how long will help be?
   e) Come back and let rescuer know how long help will be
7. Remove gear
   a) If plenty of buoyancy in wetsuit remove own scuba unit
   b) Remove patients scuba unit if not essential to positive buoyancy
8. Tow patient 25 metres (30 yds)
9. Remove patient from water
10. Assess patient
    a) DRABCDEF

WARNING: Warn students to be cautious of straining backs, arms and shoulders when removing patient or gear from water.

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VI.P.5.5 Surface Rescue Breaths

1. Secure the patient
2. Establish positive buoyancy
   a) Dump weight belts first
   b) Inflate BC's
3. Remove regulators & masks (try to keep masks)
4. Establish head tilt
5. Seal nose
6. Give 5 full rescue breaths
7. Give call for help
8. Maintain two rescue breaths every 10 seconds
9. Remove gear
10. Maintain One rescue breath every five seconds
11. Tow patient 25 metres (30yds)

NOTE: 1. Rescuer must keep patients face above water at all times.
2. Rescuer is to simulate rescue breaths by blowing on patients opposite cheek.

VI.P.5.6 Rescue of Unconscious Diver from Depth

Using the *AUSI Rescue Assessment Form* as a guide, instruct students in the rescue of a non-responsive diver from depth. This is a combination of the above two skills with the addition of an underwater phase. Begin full exercise in shallow (waist deep) water and don't progress to deeper water until diver demonstrates rescue correctly.

1. Call for assistance
   a) Ask to keep eye on where patient disappeared or where bubbles are
   b) Ask to wait in case need help removing or calling ambulance
2. Head up entry
3. Head up surface approach
   a) Ensure regulator is in mouth before descent
   b) Deflate BC as approaching bubbles
4. Descend directly over bubbles
5. Secure the patient on bottom
6. Ascend with patient
   a) Patients head must be tilted back to allow air in lungs to escape
   b) Ascent must be normal - slow and controlled
   c) Patient must arrive on surface face up
7. Secure the patient on surface
   a) Use doh-cee-doh grip
   b) Patients face must not go under the water
8. Establish positive buoyancy
   a) Dump weight belts first
   b) Inflate BC's
9. Remove regulators & masks (try to keep masks)
10. Establish head tilt
11. Seal nose
12. Give five full rescue breaths
13. Give call for help
14. Maintain two rescue breaths every 10 seconds
15. Remove gear
16. Maintain one rescue breath every five seconds
17. Remove patient from water
18. Assess patient –DR.ABCDEF

NOTE: 1. Rescuer must keep patients face above water at all times.
2. Rescuer is to simulate rescue breaths by blowing on patients opposite cheek.

WARNINGS: (i) Warn students about ear & lung pressure injuries.

(ii) Warn students about dropping weight belts on each other and damaging pool.

(iii) Students to be cautious of straining backs, arms and shoulders when removing patient from water.

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OCEAN TRAINING SESSIONS

The Ocean Training sessions are an integral part of the AUSI Level VI Scuba Diver Course. They are the culmination of the course and are an opportunity to put into practice the skills that have been taught in the pool or classroom. In a real life rescue a rescuer will only react calmly and confidently if they have done lots of repetition (ie practice) of the skills required in relatively realistic circumstances.

Optimal training efficiency comes from keeping everyone involved and giving lots of feedback.

The AUSI Level VI Scuba Diver course requires three Ocean Training Sessions. The sessions are described in detail below. The skills are numbered using the following system:

<LEVEL>**.O.**<SESSION #>**.**<SKILL #>

where:

<LEVEL> is the AUSI Scuba Diver Course Level;

O represents that it is an ocean skill;

<SESSION #> is the practical skills session number; and

<SKILL #> is the sequential number starting with the first skill of the session

eg VI.O.1.4 is skill four of the first ocean skills session in the AUSI Level VI Scuba Diver course.

The aim of the sessions is to refresh student's navigation and ocean rescue skills. Accident management leadership skills will also benefit whilst an assessment of scuba fitness will be made.

The practical skill sessions to be covered are:

Session 1 - Underwater Navigation and Fitness Swim,

Session 2 - Ocean Rescues, and

Session 3 - Ocean Dive Leadership.

WARNINGS:

(i) Submerged students must have a buddy at all times.

(ii) Exercises shall be conducted in depths greater than 4m (12ft) and no deeper than 5m (15ft).

(iii) Students **MUST** be warned about the dangers of uncontrolled descents and ascents (ie ear and lung pressure injuries).

(iv) Equipment is easily lost in the ocean - where possible use a clearly designated area.

(v) Weight belts should only be dumped when there is no possibility of a diver below.

(vi) Students to be cautious of straining backs, arms and shoulders when removing patient and equipment from water.

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Ocean Training Session 1

UNDERWATER NAVIGATION AND FITNESS SWIM

VI.O.1.1 Underwater Navigation

1. Use a compass to swim an underwater triangle with 30 metre (33yd) sides with an accuracy of five metres (6yds)
2. Use natural navigation to swim out and back 30 metres (33yds), adjust distance so that it is well beyond the limit of visibility, with an accuracy of 5 metres (6yds)

VI.O.1.2 Scuba Swim

1. Have students swim 1000 metres (1100yds) with full scuba gear on whilst breathing through a snorkel and being neutrally buoyant in no more than 50 minutes

Ocean Training Session 2

OCEAN RESCUES

VI.O.2.1 Surface Rescue

1. Each student to be actively involved as the rescuer in one of the following scenarios:
   Scenario A: Diver suffers from cramp on surface and is subsequently unable to use affected leg
   Scenario B: Diver panics on surface and is then too exhausted to fin.
   Scenario C: Diver is unconscious floating face down on surface
   Scenario D: Diver is found unconscious at depth, use *AUSI Scuba Rescue Assessment Form*
   Scenario E: Diver is missing, use *AUSI Lost Diver Assessment Form*
2. The scenarios should be treated as a group exercise with more than one rescuer available where possible. Each scenario should contain the following elements which should be used as the basis for debriefing the group:
   a). Recognition of the incident
   b). Someone taking charge
   c). Assessment of the situation
   d). Appropriate help contacted/used
   e). Appropriate equipment used
   f). Appropriate first aid provided
   g). Consideration for rescuers safety

VI.O.2.2 Lost Diver Scenario

1. Diver is reported as missing by buddy
2. Student to organise scene (use other students as assistants and victims)
3. Student to organise search and consequent rescue
4. Student to be assessed on *AUSI Lost Diver Assessment Form*

WARNINGS:

(i) Submerged students must have a buddy at all times.
(ii) Exercises shall be conducted in depths greater than 3m and no deeper than 5m.
(iii) Students MUST to be warned about the dangers of uncontrolled descents and ascents, ie ear and lung pressure injuries.
(iv) Equipment is easily lost in the ocean - where possible use a clearly designated area.
(v) Weight belts should only be dumped when there is no possibility of a diver below.
(vi) Students to be cautious of straining backs, arms and shoulders when removing patient and equipment from water.

Ocean Training Session 3

OCEAN DIVE LEADERSHIP

VI.O.3.1 Dive Leadership

1. Each student is to be actively involved in leading at least one phase of a dive leadership in the ocean
2. Other students act as certified divers who require area orientation, equipment and a dive guide
3. Try to keep group sizes small so that all students get a reasonable amount to do
4. Dive is to include all the elements of a realistic dive leadership, brief divers on small mistakes to make

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ASSESSMENT

Theory

Theory assessment is conducted continuously though out the course via lesson reviews with a final test to assess knowledge at the conclusion of the course.

Before undertaking the final theory test:

1. Students to complete lesson reviews for all AUSI Level Theory lessons,
2. Instructors are to discuss each lesson review, and
3. The Lesson Review section of *AUSI Level VI Scuba Diver Training Record* is to be signed by both student and instructor.

The *AUSI Level VI Scuba Diver Theory Test* must be administered at the conclusion of the theory section of the course and:

1. Students must score 80% to pass,
2. Instructors must review incorrect answers with the student,
3. Both the student and instructor must sign the completed answer sheet,
4. The answer sheet must be kept with the *AUSI Level VI Scuba Diver Training Record*,
5. Students who score between 75% and 85% should have their test remarked by a second instructor, and
6. Students who score less than 75% after a remark must be re-tested.

Practical

1. Compass swim using scuba at a depth between three and six metres (10-20') an underwater triangle with 30 metre (33yds) sides and return to the start point with an error of no more than five metres (6yds). Distance should be adjusted so that it is well beyond the limit of visibility, and
2. By natural navigation using scuba at a depth between three and six metres (10-20') swim a straight-line 30 metres (33yds) out and return to the start point with an error of no more than five metres (6yds). Distance should be adjusted so that it is well beyond the limit of visibility.
3. Students are to demonstrate the ability to tie all the basic knots shown in the **AUSI Dive Master Manual.**

Fitness

1. Swim, without the use of aids, 200 metres (220yds) in no more than five minutes then stay afloat for ten minutes,
2. Snorkel swim, while neutrally buoyant, 800 metres (880yds) in no more than 17 minutes,
3. Snorkel swim in the ocean, wearing but not using normal scuba, 1000 metres (1100yds) in no more than 50 minutes.

Ocean Scenarios

1. Satisfactorily complete a surface rescue of an unconscious diver, use the *AUSI Scuba Rescue Assessment Form*.
2. Satisfactorily control the scene of a missing diver, use the *AUSI Lost Diver Assessment Form*.
3. Satisfactorily complete the rescue of an unconscious diver from depth, use the *AUSI Scuba Rescue Assessment Form*.

Dive Leadership

1. Satisfactorily complete a full dive leadership for a minimum of two certified divers.
2. Dive leadership is to be assessed using the *AUSI Level VI Dive Leadership Assessment Form*.

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Internship (AUSI Level VI Professionals only)

The purpose of the trainee internship is to provide the candidate with a detailed overview of the running and management of a scuba diving school in actual operation.

During the internship supervising instructors are to ensure that the candidate attends all sessions and is given meaningful explanations.

The candidate must:

1. Satisfactorily complete two dive leaderships for a minimum of six certified divers, use the *AUSI Level VI Dive Leadership Assessment Form,*
2. Satisfactorily complete two days assisting a training facility; areas of involvement should include air filling, sales, rental and workshop equipment repairs and maintenance,
3. Satisfactorily complete two days assisting in a dive charter vessel; areas of involvement should include vessel operations and organisation, dive site selection and location, manifest management, gear stowage, dive briefing and diver entry & egress,
4. Observe a complete AUSI Level I & II Scuba Diver (Open Water) course, areas of involvement should include course planning, logistics and administration, and
5. Where appropriate, observe two complete “introduction to scuba” programs.

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CERTIFICATION

AUSI Level VI Scuba Diver

Before issuing certification the instructor must ensure that:

1. All aspects of the course and appropriate assessments are complete,
2. The *AUSI Level VI Scuba Diver Training Record* is completed by both the student and instructor, and
3. Both student and instructor have signed the Certificate of Completion.

When preparing the certification card and certificate:

1. Ensure all required details are accurately completed,
2. Ensure the Instructor signs the certificate and certification card,
3. Fill in the details of the other certification in the "*previous highest certification"* section of the student profile on the **AUSI Certification Sheet**, if a dual certification is issued,
4. Before printing, recheck all details,
5. Before laminating the certification card, affix passport photograph and sign card, and
6. Issue certificate and card to student.

The Student Profile section must be returned to AUSI Head Office by the 14th day of the next month.

If certification is not issued the instructor is to ensure appropriate follow through.

Note: Plastic AUSI Certification Cards are available via www.ausi.com.au

AUSI Level VI Professional

AUSI Head Office will issue the student's AUSI Level VI Professional certification upon receipt of a completed *AUSI Professional Annual Renewal Form* with four passport photographs, a copy of the *AUSI Level VI Training Record* and the appropriate AUSI Fee.

Before applying for certification ensure that the candidate has:

1. Reached 18 years of age,
2. Completed all aspects of the AUSI Level VI Scuba Diver course including appropriate assessments,
3. Completed all internship requirements,
4. Logged at least 60 scuba dives in varying conditions as per the standard,
5. A current diving medical, (see AUSI Definitions),
6. A current work place first aid certificate or approved equivalent,
7. A current CPR certificate or approved equivalent, and
8. A current oxygen provider certificate or approved equivalent.

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DEBRIEF

Debrief all students ensuring the following points are covered:

1. What the qualification means,
2. What is required for AUSI Level VI Professional renewal,
3. Travelling overseas with the qualification
4. AUSI Instructor Programs, and
5. Precautions:
    - Ears,
    - What to avoid with regard to Decompression Illness,
    - What to do about Decompression Illness, and
    - Local diving emergency services.

Where appropriate also include the following:

1. A course assessment sheet to analyse the students impressions of the course
2. Dive Club and Charter Boat information,
3. Dive Travel,
4. How to purchase equipment, and
5. Special package deals.

Note: Plastic AUSI Certification Cards are available via www.ausi.com.au

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AUSI LEVEL VI SCUBA DIVER

COURSE MATERIALS

AUSI MEDICAL HISTORY FORM

AUSI LEVEL VI SCUBA DIVER PARTICIPATION AGREEMENT

AUSI LEVEL VI SCUBA DIVER TRAINING RECORD

AUSI LOST DIVER ASSESSMENT FORM

AUSI SCUBA RESCUE ASSESSMENT FORM

AUSI LEVEL VI DIVE LEADERSHIP ASSESSMENT FORM

AUSI LEVEL VI DIVE BRIEF ASSESSMENT FORM

AUSI LEVEL VI SCUBA DIVER THEORY TEST

AUSI LEVEL PROFESSIONAL ANNUAL RENEWAL FORM

Please photocopy the forms for use as necessary from this section of your AUSI Instructor Manual.
OR
Registered instructors can download an AUSI Level VI Scuba Instructor Pack from www.ausi.com.au.

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Form 1 (0708) - AUSI MEDICAL HISTORY FORM

This form is used for the assessment of potential problems for persons wishing to partake in AUSI Snorkel or AUSI Scuba programs. In the interest of your safety it is important that you give true, full and complete answers to all questions. Your instructor may advise you to have a full diving medical before diving or may recommend that you do not dive at all.

IMPORTANT: Do you understand that incorrect or misleading information can lead to serious injury resulting in permanent damage or death? YES ☐ NO ☐

A. PERSONAL DETAILS

Name _____ Date of Birth ___/___/___

Address _____

Contact Email: _____ Mobile: _____ Phone: _____

Sex : Male ☐ Female ☐ Occupation _____

Where did you hear about this course? _____

B. GENERAL INFORMATION

	YES	NO	
1. Are you a non-swimmer?	☐	☐	
2. Have you ever had trouble in water?	☐	☐	Details _____
3. Have you scuba dived previously?	☐	☐	Details _____
4. Are you in good health?	☐	☐	Details _____
5. Are you on any medication?	☐	☐	Details _____
6. Operations within the last six months?	☐	☐	Details _____
7. Is there a family history of heart disease?	☐	☐	Details _____
8. Do you have any disease or disability	☐	☐	Details _____
9. Do you smoke?	☐	☐	

Pack Years (Should be < 10)

Cigarettes per day ☐ Multipliy by years of smoking ☐ Divide by 20 = ☐

	YES	NO
10. Have you consumed alcohol or any other drugs within the last 24 hours?	☐	☐
11. Will you be flying or going to altitudes above 300m within 24 hours after your last scuba dive?	☐	☐

Do you suffer from, or have you ever suffered any of the following?

12. Ear problems when flying or diving	☐	☐	16. Migraine or severe headache	☐	☐
13. Ruptured eardrum	☐	☐	17. Depression, claustrophobia or panic attacks	☐	☐
14. Chronic ear discharge or infection	☐	☐	18. Back problems	☐	☐
15. Sea sickness	☐	☐	19. Recompression for a diving related illness	☐	☐

C. MEDICAL HISTORY - Do you suffer from, or have you ever suffered any of the following?

	YES	NO		YES	NO
1. Ear surgery (other than drainage)	☐	☐	11. Pneumothorax (collapsed lung)	☐	☐
2. Persistent ringing noises or deafness	☐	☐	12. Persistent fainting or blackouts	☐	☐
3. Persistent loss of balance	☐	☐	13. Head injury requiring hospitalisation	☐	☐
4. Persistent allergies affecting nose/sinuses	☐	☐	14. Epilepsy or fits	☐	☐
5. Persistent cough or coughing blood	☐	☐	15. Any brain or spinal disorder	☐	☐
6. Recurrent chest/lung infections/problems	☐	☐	16. Diabetes	☐	☐
7. Abnormal chest pain	☐	☐	17. Heart disease	☐	☐
8. Chest surgery (heart or lung)	☐	☐	18. High blood pressure	☐	☐
9. Abnormal shortness of breath	☐	☐	19. Pulse irregularities	☐	☐
10. Asthma, wheezing or use of a puffer	☐	☐	20. Are you pregnant. or trying to be pregnant?	☐	☐

D. DECLARATION

I certify that the above information is true and complete to the best of my knowledge and I hereby authorize Dr _____ Phone # _____ to supply medical information relevant to this course regarding me to my instructor in my own personal interest.

Student's signature _____ Date ___/___/___

Instructor's signature _____ Instructor #: _____

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AUSI Level VI Diver Participation Agreement (1)

This is an important document that affects your legal rights and should be read carefully and the terms understood before signing.

THIS AGREEMENT IS BETWEEN

_____ ACN _____
(DIVE SCHOOL NAME)

of _____ in the State of _____
(Address)

AND its diving instructors, employees and agents (Hereinafter referred to as "the Dive School")

AND

_____
(NAME OF STUDENT)

of _____ in the State of _____
(Address)

(Hereinafter referred to as "the Student")

The Course

The Student wishes to participate in an Australian Underwater Scuba Instructors (AUSI) Level VI Scuba Course of instruction conducted by the Dive School which will take place on dates and times to be confirmed and comprise of seven theory modules, four practical training session and three ocean sessions ("the Course").

The Dive School agrees to provide to the Student as part of the Course the following:

☐ Course Materials	☐ Certification	☐ Snorkelling Equipment
☐ Air Fills	☐ Boat Hire	☐ Wetsuit & Weight Belt
☐ Pool Entrance	☐ Accommodation	☐ Scuba Equipment

In consideration of the Dive School conducting the Course the Student has agreed to pay the Dive School the sum of $_____ to participate in the Course ("the Course fee"). The Student acknowledges the Course fee does not include the cost of additional theory lectures, practical training sessions and ocean dives which the Dive School may determine the student must undertake in order to complete the Course. The Student also agrees to pay for any lost or damaged equipment that has been issued by the Dive School to the Student for their use during the Course.

If the Dive School in its absolute discretion determines the student has successfully completed the Course and otherwise satisfied AUSI Standards and Procedures, the Student will be issued with an AUSI Level VI Scuba Diver certification.

Statement of Limitations

Upon successful completion of the course the Student will have been taught by the Dive School the general principles of scuba diving theory and practice including dive leadership skills and as a result of successful completion of the course the Student will be able to act as an assistant for an AUSI Scuba Instructor. The Student also acknowledges that further training is required before the Student is able to organise and conduct scuba diving activities for certified scuba divers or act as an underwater guide. The Student further acknowledges that area orientation is required and that a neutral buoyancy check is required any time that different equipment is used.

WARNING - RISKS OF SNORKELLING AND SCUBA DIVING

BY SIGNING THIS DOCUMENT YOU EXPRESSLY ASSUME ALL THE RISKS, HAZARDS AND DANGERS ASSOCIATED WITH SNORKELLING AND SCUBA DIVING.

The Dive School hereby provides the Student with notice to warn him/her of the inherent risks, hazards and dangers of recreational snorkelling and/or scuba diving:

☐ 1. The underwater environment is alien to human beings and as a consequence snorkel and scuba diving are risk inherent adventure activities which expose participants to the risk of serious injury or death.

☐ 2. Many of the physiological effects on the human body due to the underwater environment and the pressure changes experienced whilst scuba diving are not properly understood.

☐ 3. The long-term effects of scuba diving on the human body are generally either not known or not properly understood and there may be adverse health effects on the human body resulting from scuba diving which are presently unknown or not fully known.

☐ 4. No decompression table or diving computer is completely safe and despite observance of safe diving practices, including diving within the tables or in accordance with the dive computer calculations, there is an inherent risk of developing decompression illness.

☐ 5. Communication under water is limited to hand signals and, as a consequence of reduced visibility or separation, communication between the instructor and the Student may be difficult or not possible.

☐ 6. Snorkel and scuba diving can involve strenuous physical exertion under certain conditions which may include swimming underwater or on the surface against a current or tidal stream, in rough seas over long distances.

☐ 7. The taking of various medications or drugs may have adverse health effects resulting from pressure changes associated with scuba diving. These are or may be unknown and medical advice should be obtained from an appropriately qualified diving doctor.

The Student expressly acknowledges he/she understands that recreational snorkel and scuba diving involves risk, hazards and dangers which could result in serious injury or death. The Student nevertheless wishes to participate in the Course and willingly accepts and expressly assumes all such risks, hazards and dangers.

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AUSI Level VI Diver Participation Agreement (2)

Liability Release and Indemnity Agreement

The Student, in consideration of the Dive School agreeing to accept his/her participation in, and to instruct the Student during the Course, agree to release the Dive School from all loss, damage, claims, demands, suits, actions or proceedings of any kind directly or indirectly arising out of or resulting from an accident or happening, equipment failure, latent conditions, damage, death, injury or loss arising or occurring to or suffering by him/her during or after the Course or during of after any subsequent snorkel or scuba diving activity or related activity whether or not the same shall have been caused by, or contributed to in whole or in part to the negligence of or breach of contract by the Dive School.

The Student expressly acknowledges that he/she is in good health and is not aware of any medical or health reason why he/she should not participate in scuba or snorkel diving and he/she has fully and truthfully disclosed to the Dive School and any doctor examining him/her for the purpose of determining his/her fitness to dive:-

(i) any medical or health condition suffered by or affecting him/her of which he/she is aware;

(ii) all medications or drugs which he/she is taking or takes from time to time;

The Student expressly acknowledges that he/she has read and understood this agreement, and specifically the waiver of legal rights and notice warning of some of the risks inherent in the activities of snorkel and scuba diving, and agrees to be bound by them.

This agreement does not purport to or have the effect of excluding, restricting or modifying the application of any of the provisions of the *Fair Trading Act* or the *Trade Practices Act* or the exercise of a right conferred by any such provision or any liability for a breach of condition or warranty implied by such provision.

SIGNED for and on behalf of

)

[name of Dive School] ……) X

) ……

SIGNED SEALED AND DELIVERED by the said

)

[name of Student] ……..……..) X

) ……

in the presence of

Witness xx ……..

IF THE STUDENT IS UNDER THE AGE OF 18 YEARS THIS AGREEMENT IS TO BE READ CAREFULLY AND THEN SIGNED BY THE STUDENT'S PARENTS OR LEGAL GUARDIAN WHERE INDICATED BELOW:

In consideration of the Student being permitted to undertake the Course I, _____, being at least eighteen years of age and the parent or legal guardian of the Student, on behalf of myself and the Student, agree to be bound by the terms and conditions of this agreement. I hereby acknowledge that I have read and understood this agreement, in particular, the Statement of Limitations, Express Assumption of Risk Agreement and the Liability Release and Indemnity Agreement and hereby give my consent to the Student participating in the Course with full knowledge of the inherent risks involved.

I expressly acknowledge that the Student is in good health and that I am not aware of any medical or health reason why he/she should not participate in scuba or snorkel diving and that I have fully and truthfully disclosed to the Dive School and any doctor examining him/her for the purpose of determining his/her fitness to dive:-

(i) any medical or health condition suffered by or affecting him/her of which he/she is aware;

(ii) all medications or drugs which he/she is taking or takes from time to time;

SIGNED SEALED AND DELIVERED by the said

)

[name of Father/Mother/Legal Guardian] ……..……..) X

) ……

in the presence of

Witness xx ……..

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AUSI LEVEL VI SCUBA DIVER TRAINING RECORD (1/2)

Student's Name: _____ **Course No.:** _____

PREREQUISITES: (as per AUSI Instructor Manual - Level VI Scuba Diver Standards)

At least 16 years of age ❑ AUSI Level V or approved equivalent ❑

Current Diving Medical ❑ Completed at least 25 ocean dives ❑

SATISFIED ALL PREREQUISITES	Student to sign	Instructor to sign	Instructor No.	Date

THEORY INSTRUCTION: (as per AUSI Level VI Scuba Diver Course Notes)

Class	Date	Student	Instructor	No.	Review	Date	Student	Instructor	No.
LVI/1					LVI/1				
LVI/2					LVI/2				
LVI/3					LVI/3				
LVI/4					LVI/4				
LVI/5					LVI/5				
LVI/6					LVI/6				
LVI/7					LVI/7				
LVI/8					LVI/8				

Theory Assessment	Date	Instructor	No.	Result	Comments
01 Theory Test					

SATISFACTORY COMPLETION OF THEORY COMPONENT	Student to sign	Instructor to sign	Instructor No.	Date

PRACTICAL INSTRUCTION: (as per AUSI Instructor Manual - Level VI Teaching Guidelines)

Session	Date	Instructor	No.	Session	Date	Instructor	No.
# 1				# 3			
# 2				# 4			

Practical Skills	Session #	Student	Comments
01 Check qualifications and experience of divers			
02 Fit divers for hire equipment			
03 Performing neutral buoyancy checks on divers			
04 Supervise divers gearing up			
05 Equipment checks			
06 Repairing snorkelling equipment			
07 Fixing minor faults with BC's			
08 Fixing minor faults with regulators			
09 Replacing cylinder - valve o-ring			
10 Tired diver tows - straight arm tow			
11 Tired diver tows - doh-cee-doh			
12 Tired diver tows - wheel barrow (push)			
13 Panicking diver on surface			
14 Unconscious diver on surface			
15 Surface EAR			
16 Rescue of unconscious diver at depth			
17. Lost diver scenario			
18 Dive brief for familiar site			
19 Dive brief for unfamiliar site			

Practical Skills Assessment	Session #	Instructor	No.	Result	Comments
01 Cylinder filling					
02 Fitness swim – 200 m (220 yds) in 5 mins					
03 Fitness snorkel – 800 m(880 yds) in 16 mins					
04 Tread water for 10 mins					

SATISFACTORY COMPLETION OF PRACTICAL SKILLS	Student to sign	Instructor to sign	Instructor No.	Date

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AUSI LEVEL VI SCUBA DIVER TRAINING RECORD (2/2)

Student's Name: _____ **Course No.:** _____

OCEAN SESSIONS: (as per AUSI Instructor Manual - Level VI Teaching Guidelines)

Session	Date	Instructor	No.	Session	Date	Instructor	No.
# 1				# 3			
# 2							

Ocean Skills Assessment	Session #	Instructor	No.	Result	Comments
01 Underwater triangle of 30 m (33 yds) sides using a compass					
02 Natural navigation underwater 30 m (33 yds) out and back					
03 Snorkel in full scuba 1000 m (1100 yds) -less than 50 mins					
04 Surface rescue (scenario A, B, C, or D)					
05 Lost Diver Scenario					
06 Ocean Dive Leadership					

SATISFACTORY COMPLETION OF OCEAN SKILLS	Student to sign	Instructor to sign	Instructor No.	Date

CERTIFICATION REQUIREMENTS: (as per AUSI Instructor Manual - Level VI Scuba Diver Standards)

Level VI Scuba Diver

Completed theory training & assessment ❑
Completed practical training & assessment ❑
Completed ocean assessment ❑

Level VI Standard Certification Issued ■

Comments

Certification number _____ **Date** _____

AUSI Level VI Professional Record of Internship:	Date	Instructor	AUSI #
Dive Leadership #1 (minimum 8 divers)			
Dive Leadership #2 (minimum 8 divers)			
Dive Store – Day 1			
Dive Store – Day 2			
Dive Charter – Day 1			
Dive Charter – Day 2			
AUSI Level I/II Scuba course			

SATISFACTORY COMPLETION OF INTERNSHIP	Student to sign	Instructor to sign	Instructor No.	Date

Level VI Professional

At least 18 years of age ❑
Completed 60 scuba dives ❑
Completed internship ❑
Current dive medical (AS/NZ2299.1) ❑
Current first aid ❑
Current CPR ❑
Current oxygen provider ❑
Completed AUSI Professional Registration Form ❑

Level VI Professional Certification Issued by: AUSI Head Office

Comments

AUSI LEVEL VI SCUBA DIVER CERTIFICATE OF COMPLETION

I _____ on this day _____ hereby state that the above record of my AUSI Level VI Scuba Diver training is true and correct.

Student's Signature: _____

Certifying Instructor's Signature: _____

Certifying Instructor's Number: _____

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AUSI LOST DIVER ASSESSMENT FORM

Candidates Name: _____ **Date:** _____

Assessors Name: _____ **Instructor #:** _____

Site: _____ **Scenario #:** _____

Time Started: _____
Time Finished: _____
Time Taken: _____

INITIAL RESONSE	Must	Should	COMMENTS
Mark spot	❑		
Record time	❑		
Stay calm (clear instructions)		❑	
Assign lookout	❑		
QUESTION BUDDY			
When was buddy last seen?	❑		
At what depth?	❑		
How much air was left?	❑		
Was buddy's behaviour normal at the time?	❑		
Is this behaviour normal for the buddy?	❑		
CALL FOR HELP			
Decide how long to wait based on above information		❑	
Recall divers	❑		
Call for help from other dive boats		❑	
Call for help from rescue organisations	❑		
Correct radio procedure		❑	
ORGANISE SEARCH			
Snorkellers used where possible		❑	
All searchers in buddy pairs		❑	
Searchers health not risked (eg. Cold, DCI, solo)	❑		

		Must	Should
	POSSIBLE	12	6
TOTALS			
	MINIMUM REQUIRED	11	3

WAS SCENARIO SAFE? (NO = FAIL) - explain why!	❑		**PASS / FAIL**

GENERAL COMMENTS

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AUSI RESUSCITATION & O_2 ASSESSMENT FORM (1)

Candidates Name: _____ **Date:** _____

Assessors Name: _____ **Instructor #:** _____

Scenario: _____ **Scenario #:** _____

INITIAL RESONSE	Must	Should	COMMENTS
Danger identified and removed	❑		
Stay calm		❑	
Response checked - touch and voice	❑		
CONSCIOUS PATIENT			
Positioning appropriate	❑		
Reassurance		❑	
Oxygen (demand or non-rebreather)	❑		
Monitoring patients condition	❑		
Monitoring vital signs		❑	
Protect from environment		❑	
Secondary assessment		❑	
UNCONSCIOUS BREATHING PATIENT			
Call for *"HELP!"*	❑		
Turn on side	❑		
Open, drain and clear airway	❑		
Check for breathing (look, listen and feel)	❑		
Maintain airway (jaw support)	❑		
Oxygen via non-rebreather mask	❑		
Stable side position	❑		
Monitoring vital signs	❑		
RESPIRATORY FAILURE (use mannequin)			
Turn onto back	❑		
Give 2 full rescue breaths i	❑		
Breaths effective	❑		
Rescuer watching rise and fall of chest	❑		
Carotid pulse checked (approximately 5-10 seconds)	❑		
Adequate time taken when checking pulse	❑		
RESCUE BREATHS			
Maintain technique	❑		
Regular recovery checks	❑		
Oxygen via pocket mask		❑	
CARDIAC FAILURE (CPR)			
Locate compression point	❑		
Compressions effective	❑		
Maintain rate and ratio	❑		
Regular recovery checks	❑		
2 OPERATOR CPR			
Bystanders checked for CPR training		❑	
Precise instructions		❑	
Effective		❑	
Oxygen via pocket mask		❑	
POSSIBLE	24	10	
TOTALS			
MINIMUM REQUIRED	23	6	
WAS RESCUSCITATION EFFECTIVE? (NO = FAIL) - explain why!	❑		**PASS / FAIL**

GENERAL COMMENTS

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AUSI RESUSCITATION & O_2 ASSESSMENT FORM (2)

Candidates Name: _____ **Date:** _____

Assessors Name: _____ **Instructor #:** _____

Scenario: _____ **Scenario #:** _____

OXYGEN EQUIPMENT ASSEMBLY	Must	Should	COMMENTS
Area checked for dangers with oxygen	❑		
Cylinder cracked		❑	
Gauge faced away from people when turning on	❑		
Correct function of equipment checked	❑		
OXYGEN DELIVERY			
Cylinder lying down and secure	❑		
Appropriate delivery method used		❑	
Appropriate flow rates		❑	
Appropriate patient position		❑	
Oxygen delivery effective	❑		
Monitor patient & record response	❑		
Reassure patient		❑	
Calculate duration oxygen cylinder at current rate		❑	
OXYGEN EQUIPMENT DISASSEMBLY			
Turn cylinder off		❑	
Purge line	❑		
Disassemble and pack up equipment		❑	
COMPLICATIONS (can be oral)			
Severe bleeding	❑		
Regurgitation	❑		
Vomiting	❑		
Airway obstruction	❑		
Stomach distension	❑		
Oxygen demand valve uncomfortable	❑		
Over breathing using oxygen non-rebreather mask	❑		
ORGANISATION			
Emergency services called	❑		
Information given is adequate	❑		
Bystander sent to meet emergency services		❑	
Bystander assigned crowd control		❑	
Details recorded		❑	
Hygiene considered		❑	

		Must	Should
	POSSIBLE	16	12
TOTALS			
	MINIMUM REQUIRED	15	7

WAS RESCUSCITATION EFFECTIVE? (NO = FAIL) - explain why!	❑		**PASS / FAIL**

GENERAL COMMENTS

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AUSI LEVEL VI DIVE LEADERSHIP ASSESSMENT FORM

Candidates Name: _____ **Date:** _____

Assessors Name: _____ **Instructor #:** _____

Site: _____ **Type:** _____ **Dive #:** _____

Time Started: _____
Time Finished: _____
Time Taken: _____
Time Allowed: _____

GENERAL BRIEF	**Must**	**Should**	**Comments**
Introduction		☐	
Complete dive sheet	☐		
Equipment requirements		☐	
What equipment checks are to be done		☐	
Check divers health	☐		
Transportation & loading equipment		☐	
Directions to site		☐	
Time to meet		☐	
EQUIPMENT			
Equipment checks of divers gear		☐	
Appropriate spares (full scuba unit; spares kit)		☐	
Appropriate emergency equipment	☐		
Flag/float	☐		
Equipment handled correctly	☐		
BOAT (if applicable)			
Introduce skipper		☐	
Boat brief	☐		
Fill in manifest		☐	
Safety equipment check	☐		
Check dive flag	☐		
Observe passengers for correct behaviour	☐		
ON ARRIVAL			
Check conditions are safe to dive	☐		
Help skipper if required		☐	
Dive platform readied (eg flag, ladders, lines etc)	☐		
DIVE BRIEF			
Brief given (see Dive Brief Sheet)	☐		
GEARING UP & ENTRY			
Instructions given		☐	
Watching divers		☐	
Buddy system employed		☐	
Buddy checks	☐		
Safe and appropriate entry	☐		
DURING DIVE			
Lookout kept	☐		
Ready for rescue action if required	☐		
DIVE END			
Safe exit	☐		
Buddy system used for gear removal		☐	
Correct stowage of equipment		☐	
BOAT (if applicable)			
Dive sheet completed (incidents or accidents recorded)		☐	
Dive platform packed up (eg flag, ladders, lines etc)		☐	
HEALTH			
Check OK	☐		
Observe		☐	

POSSIBLE	18	19
TOTALS		
MINIMUM REQUIRED	17	12

PASS / FAIL

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AUSI LEVEL VI DIVE BRIEF ASSESSMENT FORM

Assessors Name: _____ **Instructor #:** _____

Site: _____ **Type:** _____ **Dive #:** _____

Time Started: _____
Time Finished: _____
Time Taken: _____
Time Allowed: _____

INTRODUCTION	**Must**	**Should**	**Comm**
Site description		☐	
Emergency facilities		☐	
Hazards	☐		
Buddy allocation	☐		
GEAR UP			
Gear up instructions (weight belt first)		☐	
Buddy system		☐	
Buddy checks	☐		
ON SURFACE			
Entry	☐		
Surface drill	☐		
Where to go	☐		
DESCENT			
Descent procedures	☐		
Depth at bottom of descent (ascend if exceeded)	☐		
DURING DIVE			
Swim direction		☐	
Buddy system	☐		
Max depth	☐		
Max bottom time	☐		
Air monitoring	☐		
Low air warnings	☐		
ASCENT			
Rate	☐		
Safety Stops	☐		
Surface Drill	☐		
EXIT			
Exit procedures		☐	
DIVE END			
Gear removal		☐	
Gear stowage		☐	
EMERGENCY PROCEDURES			
Lost buddy	☐		
Caught in current and/or wind	☐		
Out of air	☐		
No penetration (where applicable)	☐		
Signals		☐	

		Must	**Should**
	POSSIBLE	20	9
TOTALS			
	MINIMUM REQUIRED	19	6

PASS / FAIL

GENERAL COMMENTS

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AUSI LEVEL VI SCUBA DIVER
THEORY KNOWLEDGE EXAMINATION
Time allowed: Three (3) hours

PLEASE PLACE NAME & DATE ON TOP OF EVERY PAGE

Candidates Name:_____

Course:_____

Facility: _____

Date: _____

Instructor: _____

Results:

		First Mark	Second Mark	Result Pass/Fail
Section 1	Role of the Level VI Diver			
Section 2	Leading Group Dives			
Section 3	Accident Management			
Section 4	Cylinders & Compressors			
Section 5	Boating & Navigation			
	Total	_____	_____	

MINIMUM REQUIRED: 80

OVERALL RESULT: PASS/FAIL

Each section requires a minimum mark of 16 to pass and the Candidate must not fail more than two sections to be granted an overall pass regardless of the overall mark.

EXAMINER'S NAME: _____ AUSI NO. _____

EXAMINER'S SIGNATURE: _____

OCTOBER 2005

NAME : _____ DATE: _____

SECTION 1:
THE ROLE OF THE AUSI LEVEL VI SCUBA DIVER

QUESTION 1 State the four (4) major functions of the AUSI Level VI Scuba Diver: (4 Marks)

QUESTION 2 List four (4) essential skills of the AUSI Level VI Scuba Diver (4 Marks)

QUESTION 3 List two (2) very important attributes of the AUSI Level VI Scuba Diver (2 Marks)

NAME : _____ DATE: _____

SECTION 2:
LEADING GROUP SCUBA DIVES

QUESTION 1 When assessing a diver, what do you want to hear about their: (2 Marks)

a) Training _____

_____

b) Experience _____

_____

QUESTION 2 How can you assess a divers fitness to dive? (2 Marks)

_____

_____

_____

_____

QUESTION 3 List four factors which need to be taken into account when selecting a dive site. (2 Marks)

_____ _____

_____ _____

QUESTION 4 How should cylinders be transported in a vehicle? (1 Mark)

_____

_____

QUESTION 5 What are four (4) factors to consider when assessing water conditions? (2 Marks)

_____ _____

_____ _____

QUESTION 6 Where would you look to dive when a strong wind is blowing or forecast? (1 Mark)

_____

QUESTION 7 How much weight should be on a weight belt? (1 Mark)

_____

NAME : _____ DATE: _____

QUESTION 8 What records should be kept by an AUSI Level VI Scuba Diver acting as a dive master? (2 marks)

QUESTION 9 What tasks might be performed by the AUSI Level VI Scuba Diver to set up the dive deck once the boat is anchored? (2 Marks)

QUESTION 10 How would you allocate buddy pairs? (1Mark)

QUESTION 11 What, if any, groups would you assign to dive together? (1 Mark)

QUESTION 12 What are the final checks you would perform on divers before they entered the water? (2 Marks)

QUESTION 13 What must the AUSI Level VI Scuba Diver do before leaving the dive site?(1 Mark)

NAME : _____ DATE: _____

SECTION 3:
ACCIDENT MANAGEMENT

QUESTION 1 How do you control severe bleeding? (2 Marks)

QUESTION 2 What is the first aid for shock? (2 Marks)

QUESTION 3 What is the recommended first aid for a diver suspected of suffering Decompression Illness? (3 Marks)

QUESTION 4 List eight (8) signs and symptoms of Decompression Illness. (4 Marks)

QUESTION 5 What is generally the most distinguishing feature between Decompression Illness (DCI) and Cerebral Arterial Gas Embolism (CAGE)? (1 Mark)

QUESTION 6 How would you treat a victim of mild hypothermia? (2 Marks)

NAME : _____ DATE: _____

QUESTION 7 Describe the recommended procedure for envenomation. (2 Marks)

QUESTION 8 What is recommended for an apparently fully recovered drowned victim and why? (2 Marks)

QUESTION 9 How would you treat a diver suffering from heat stroke? (2 Marks)

QUESTION 10 List your actions for a panicking diver. (3 Marks)

QUESTION 11 List you actions for a missing diver. (3 Marks)

QUESTION 12 Give 2 reasons why 100% oxygen is beneficial in the treatment of diving related illnesses? (2 Marks)

QUESTION 13 a) How would you deliver oxygen to a conscious breathing diver? (1 Mark)

b) How would you deliver oxygen to an unconscious breathing diver? (1 Mark)

NAME : _____ DATE: _____

SECTION 4:
CYLINDERS & COMPRESSORS

QUESTION 1 The working pressure of a cylinder is given as 2250 psi at 15 C. What pressure should the cylinder be filled to?

a) Atmospheres: _____ (1 Mark)

b) Mega Pascals: _____ (1 Mark)

QUESTION 2 If a cylinder was tested in August the previous year, when is the last day it can be filled? (2 Marks)

QUESTION 3 What do the following cylinder markings mean and what is their relevance to diving? (2 Marks each)

WP 24.8mpa

DOT3AA

TW 11.7KG

WC 8.04Kg _____

QUESTION 4 List three (3) reasons why a regulator would breathe wet. (3 Marks)

QUESTION 5 How would you remedy the following: (1 Mark each)

Air leaking from high pressure hose/gauge junction

Small trails of bubbles along the high pressure hose

Air leaking from second stage

Auto inflating buoyancy compensator

NAME : _____ DATE: _____

QUESTION 6 List four (4) checks you would make before filling a cylinder. (4 Marks)

QUESTION 7 Where should the air inlet to a compressor be placed? (2 Marks)

QUESTION 8 a) What is removed from the compressed air in the inter stage filters? (1 Mark)

b) What does the final filter remove from the compressed air? (1 Mark)

c) How often should the final filter be changed? (1 Mark)

QUESTION 9 What type of oil should be used in a compressor? (1 Mark)

QUESTION 10 Under what circumstance should you be using a compressor? (1 Mark)

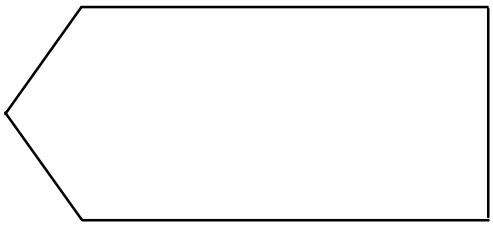
NAME : _____ DATE: _____

SECTION 5:
BOATING & NAVIGATION

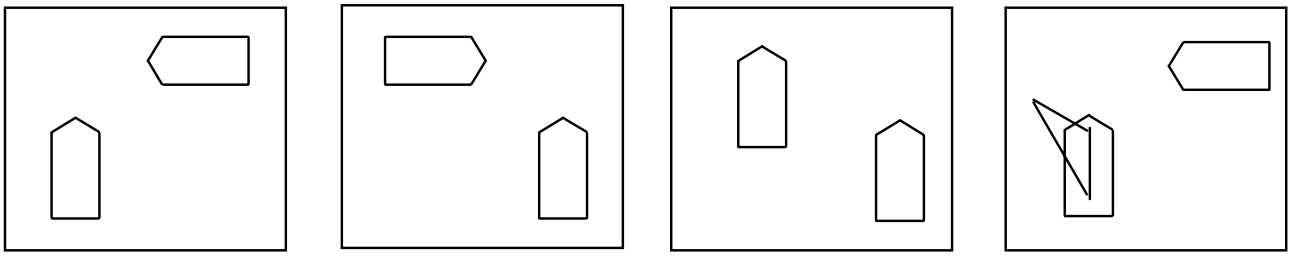
QUESTION 1 What are the two major requirements for using a boat in a commercial dive school? (1 Mark)

_____ _____

QUESTION 2 What lights are required for a six (6) metre power vessel? Draw in arcs & colours. (1 Mark)



QUESTION 3 a) Circle the vessel which has right of way in the following situations. (2 Marks)



b) How do vessels pass each other in a head on situation? (1 Mark)

_____

QUESTION 3 What does the following chart symbol mean? **GpFl(2) W15sec20m1OM** (1 Mark)

_____

QUESTION 4 a) What does a north cardinal mark indicate? (1 Mark)

_____

b) What does a can shaped marker indicate? (1 Mark)

_____

QUESTION 5 What is the procedure for making a VHF radio call? (2 Marks)

_____

_____

_____

_____

NAME : _____ DATE: _____

SECTION 6:
DIVE BRIEFS

QUESTION 1 List the main points of a dive brief for a group of six (6) Level III Divers doing their first night dive from a boat. (10 Marks)

NAME : _____ DATE: _____

SECTION 7:
DIVE TABLES

ANSWER EACH QUESTION USING ALL OF THE FOLLOWING TABLES:

1/ PADI RDP 2/ NAUI/US NAVY 3/ DCIEM 4/ QED

QUESTION 1 What is the maximum no-decompression time for a second dive to 22m, after a first dive to 36m for 7 minutes was conducted 2 hours 50 minutes earlier? (8 Marks)

1/_____ 2/_____ 3/_____ 4/_____

QUESTION 2 What is the maximum no-decompression time for a third dive to 17.5 m after the following two dives? (8 Marks)

DIVE 1	28 m for 15 min
SURFACE INTERVAL	4 hr 15 min
DIVE 2	25 m for 15 min
SURFACE INTERVAL	1hr 45 min

1/_____ 2/_____ 3/_____ 4/_____

QUESTION 3 What precautions should be taken on a ten (10) day tropical holiday? (2 Marks)

_____

_____

QUESTION 4 What precautions should be taken when diving using a computer? (2 Marks)

_____

_____

..

Form 3 (0809) - AUSI Professional Annual Renewal Form

Name: _____ **AUSI Number:**

Address: _____

_____ **Postcode:** _____

Phone: _____ **Mobile:** _____

E-mail: _____ **Facsimile:** _____

Facility: _____ **Facility Phone:** _____

Renewal for:

Snorkel Swimming Instructor*	☐		
Snorkel Guide*	☐	Level	☐
Snorkel Diver Instructor**	☐	Level	☐
Snorkel Diver Instructor Trainer**	☐	Level	☐
Level VI Professional*	☐		
Scuba Assistant Instructor*	☐		
Level I Scuba Instructor *	☐		
Level II-VI Scuba Instructor**	☐	Level	☐
Scuba Instructor Trainer (LVII)**	☐		
Scuba Instructor Examiner (LVIII)**	☐		

Current highest other diving certification:

Agency: _____

Level: _____

Number: _____

Date: _____

Scuba Instructor Level Upgrade:

Previous Level: ☐ New Level: ☐

Date of Upgrade: _____

Verified by: _____

AUSI No.: _____

Signature: _____

The following MUST accompany this renewal form: (*Scanned documents can be sent by e-mail*)

Appropriate fee (see below) – cheque made to AUSI or credit card or Pay Pal via web site	☐
Two passport photographs **OR** one electronic passport photograph to: info@ausi.com.au	☐
Copy of current medical (Australian Scuba Professionals require AS/NZ 2299.1)	☐
Copy of current work place first aid or approved equivalent	☐
Copy of current CPR or approved equivalent	☐
Copy of current oxygen provider or approved equivalent **OR**	☐
Current oxygen provider instructor or approved equivalent for Level V Scuba and higher	☐
Other relevant current teaching, instructing or coaching qualifications	☐

Annual Snorkel Endorsement: **Certification Duck Dive** (Max. comfortable depth): ☐ m/ft

Assessed by: **Instructor No.** **Date :**

AUSI Annual Renewal Fees:	**AUD**	
***Non-certifying Professionals:**	$55	☐
****Certifying Instructors:**	$110	☐
Instructor Upgrade Card Fee:	$15	☐

Note:
If Annual Renewal is received by 30 November, certifying instructors will have their fee rebated with eight AUSI Certification Forms.
If Annual Renewal is not received by 31 December, AUSI status will be downgraded to inactive.

Credit Card Payment Type of Card: Visa ☐ MasterCard ☐ Bankcard ☐

Amount authorised _____ Card Number ☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐

Card Holder _____ Signature _____ Exp. Date ___ / ___

Applicant's Declaration: I hereby declare that the information provided in this application is to the best of my knowledge true and correct and I agree to abide by AUSI Standards, AUSI Procedures and AUSI Teaching Guidelines when conducting AUSI Programs and I understand that materials I can download from www.ausi.com.au are protected by international copyright laws and that downloaded materials can only be used for my own personal use unless I have received written authorisation from AUSI Pty Ltd. I further acknowledge that I have read and agree to the terms and conditions as specified in the AUSI Open Licence agreement. I also understand that my personal information will not be passed on to any third party by AUSI without my express permission. I further declare that to the best of my knowledge I am not under any outstanding ethics complaint.

Applicant's signature: _____ Date: _____

Return completed form with relevant documentation and payment to:

AUSI PO Box 202 Queenscliff Victoria 3225 AUSTRALIA

Fax: +61 3 5255 4455 **E-mail: info@ausi.com.au**

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