COURSE OUTLINE

Open Water Dive
Course Title

TH 104
Dept. & Course No.

I. COURSE DESCRIPTION

This course is designed to introduce the students to the aquatic world, specifically to the sport of scuba diving. The students will learn the theoretical knowledge necessary for safe diving and will achieve mastery of the required skills and techniques in open water. It is performance based whereby students must demonstrate mastery of each step before proceeding to the next step. For all "in water" portions of the course, there is no grading system as practice continues until mastery is achieved.

II. SEMESTER CREDITS: 2

III. CONTACT HOURS PER WEEK: 0 (Lecture) 6 (Lab) 6 (Total)

IV. PREREQUISITE: HPE 181/valid First Aid/CPR Cards.

V. STUDENTS LEARNING OUTCOME:

Upon completion of this course, the student will be able, with 100% accuracy, to:

1. Plan and conduct safe scuba dives based on a sound theoretical knowledge

VI. COURSE CONTENT:

A. Introduction to the Underwater Worl
   1. The basic principle of buoyancy.
   2. Basic physics.
   3. An introduction to equipment.

B. Adapting to the Underwater World.
   1. Seeing and hearing underwater.
   2. Correct breathing techniques.
   3. Further discussion of equipment.
   4. The buddy system and communi-cation.

C. The Dive Environment.
   1. Temperature, visibility, water movement, bottom composition, aquatic life and sunlight.
   2. Dive planning.
   3. An introduction to problem Management.

D. Dive Accessories and the Physiologi Effects of Nitrogen.
   1. Dive accessories.
   1. Nitrogen narcosis
   2. Decompression sickness
   3. The use of the Recreational dive planner tables to plan safe dives.

E. Further Knowledge for Planning and Safety.
   1. Safety stops.
   2. Additional rules using the tables In special circumstances.
   3. The use of dive computer.
   4. The principles of basic compass navigation.

2. Demonstrate mastery of all basic scuba diving techniques in a confined water setting and later on in an open water.

A. Basic Scuba Diving Techniques:
   1. Equipment assembly and disassembly/
   2. Mask clearing and removal skills
   3. Regulatory recovery skills.
   4. Buoyancy control skills.
   5. Emergency procedures for out o air situations.
   6. Correct ascent and descent procedures.
   7. Removal and replacement of equipment.
   8. Correct entry and exit procedure

VII. MATERIALS AND EQUIPMENT

A. Routine Classroom materials
B. Dive equipment and Boat.
C. First Aid Kit & 02 Kit.
D. TV DVD Player & DVDs

VIII. TEXTS & REFERENCES

A. Texts:

Professional Association of Diving Instructors,
Open Water Diving Adventures, PADI, Inc. 2000-01

B. Reference:
None

IX. METHOD OF INSTRUCTION

A. Lecture
B. Discussion
C. Demonstration
D. Self Study
E. Knowledge Reviews
F. Water Skills Demonstrations, Practice and Evaluation.

X. METHOD OF EVALUATION

Skills Assessment		Pass/Fail
Participation		15%
Quizzes		18%
Tests		55%
Dive Log		12%
	Total	100%

Transmutation of percent to letter-grade is as follows:

90-100%	=	A
80-89%	=	B
70-79%	=	C
65-69%	=	D
Below 64%	=	F

PALAU COMMUNITY COLLEGE

TH 104 Open Water Dive
Competency Profile Assessment

Student's Name: _____ Semester Year: _____

Instructor's Name (Print) _____

Directions: Evaluate the student using the rate scale of five components (circle one number for each competency) including the degree of competency. The numerical data of 5, 4, 3, 2, and 1 are not intended to represent the traditional school grading of A, B, C, D, and F. Rather, they only indicate the degree of competency for a student that he/she should master from the course.

Rating Scale:
5 = EXCELLENT
4 = ABOVE AVERAGE
3 = AVERAGE
2 = BELOW AVERAGE
1 = UNACCEPTABLE

Competency #1:

Numerical Value	Plan and conduct safe scuba dives based on a sound theoretical knowledge.
5	• Plan and conduct safe scuba dives based on a sound theoretical knowledge with 90%-100% accuracy.
4	• Plan and conduct safe scuba dives based on a sound theoretical knowledge with 80%-89% accuracy.
3	• Plan and conduct safe scuba dives based on a sound theoretical knowledge with 70%-79% accuracy.
2	• Need help to plan and conduct safe scuba dives based on a sound theoretical knowledge.
1	• Unable to plan and conduct safe scuba dives based on a sound theoretical knowledge.

Competency #2:

Numerical Value	Demonstrate mastery of all basic scuba diving techniques in a confined water setting and later on an open water situations.
5	• Demonstrate mastery of all the basic scuba diving techniques in a confined water setting and later on an open water situations.
4	• Demonstrate mastery of most of the basic scuba diving techniques in confined water and later on an open water situations.
3	• Demonstrate mastery of some of the basic scuba diving techniques in confined water and later on an open water situations.
2	• Need help to demonstrate mastery in all basic scuba diving techniques in confined water setting and later on open water situations.
1	• Unable to demonstrate mastery of all basic scuba diving techniques in a confined water setting and later on an open water situations.

I certify that the student has completed all the competencies in this course and has achieved ratings as shown in each respective competency.

_____ _____

Instructor's signature Date

PALAU COMMUNITY COLLEGE

TH 104 Open Water Dive
Competency Profile Assessment

Student's Name: _____ Semester Year: _____

Instructor's Name (Print) _____

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3	• Plan and conduct safe scuba dives based on sound theoretical knowledge with 70%-79% accuracy.
2	• Need help to plan and conduct safe scuba dives based on sound theoretical knowledge.
1	• Unable to plan and conduct safe scuba dives based on sound theoretical knowledge.

Competency #2:

Numerical Value	Demonstrate mastery of all basic scuba diving techniques in a confined water setting and later on an open water situations.
5	• Demonstrate mastery of all the basic scuba diving techniques in a confined water setting and later on an open water situations.
4	• Demonstrate mastery of most of the basic scuba diving techniques in confined water and later on an open water situations.
3	• Demonstrate mastery of some of the basic scuba diving techniques in confined water and later on an open water situations.
2	• Need help to demonstrate mastery in all basic scuba diving techniques in confined water setting and later on open water situations.
1	• Unable to demonstrate mastery of all basic scuba diving techniques in a confined water setting and later on an open water situations.

I certify that the student has completed all the competencies in this course and has achieved ratings as shown in each respective competency.

_____ _____

Instructor's signature Date

Form NC – 2
TASK LISTING SHEET

TH 104: Open Water Dive	Credits:	0	2	96
Course No. & Title		Lec.	Lab	Total Lab Hrs.

1.	Plan and conduct safe scuba dives based on a sound theoretical knowledge:	46
a.	An introduction to the underwater world	10
b.	Adapting to the underwater world	09
c.	The Dive Environment	08
d.	Dive accessories and the physiological effects of Nitrogen	09
e.	Further techniques for planning and safety	10
2.	Demonstrate mastery of all basic scuba diving techniques in a confined water setting and later on in an open water situations.	50
a.	Equipment assembly and disassembly	07
b.	Mask clearing and removal skills	08
c.	Regulatory recovery skills	06
d.	Buoyancy control skills	08
e.	Emergency procedures for out of air situations	08
f.	Correct ascent and descent procedures	05
g.	Removal and replacement of equipment	04
h.	Correct entry and exit procedures	04