

## STANDARD KEMAHIRAN PEKERJAAN KEBANGSAAN (NATIONAL OCCUPATIONAL SKILLS STANDARD)

# HT-400-3:2013 SCUBA DIVE OPERATION LEVEL 3



## JABATAN PEMBANGUNAN KEMAHIRAN KEMENTERIAN SUMBER MANUSIA, MALAYSIA

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# JABATAN PEMBANGUNAN KEMAHIRAN KEMENTERIAN SUMBER MANUSIA, MALAYSIA

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## STANDARD PRACTICE

## NATIONAL OCCUPATIONAL SKILLS STANDARD (NOSS)

### FOR;

## SCUBA DIVE OPERATION LEVEL 3

#### 1. INTRODUCTION

SCUBA Dive operation is a function and roles of responsibility for the business services in diving activities of tourism and hospitality industry. This is the review NOSS for SCUBA diving under recreational and diving of Tourism & Hospitality. The competencies of this job area will enhancing the candidate perform the areas of expositions and also individual/enhancement in managing, strategizing, planning and monitoring the service of diving activities.

Scuba diving simply means going through a session of underwater swimming and diving deep under the waters using scuba set.

Scuba dive operation is the recreational diving business to implement and continuously improve the control measures necessary for the safe conduct of their undertaking. The dive operation specifically address the personnel, procedural requirements, associated activities and managing of the environmental risk and threats procedures for best client's interest for all aspects of diving operations, dive systems and associated dive centre, ensuring adherence and compliance to relevant legislation and guidelines at all times.

This NOSS document shows the structured career path of Scuba dive operation (Level 3) personnel. It provides a set of activities that enables a person who aspires to achieve competency in this particular occupation, ultimately enhancing him/her on a career in the recreational SCUBA dive operation industry.

Standard practice and standard content are part of this NOSS documentation. The job areas are based on the Occupational Area Analysis (OAA). This document covers the competency standard of scuba dive operation Level 3 that is currently gaining priority in a highly competitive employment environment where individuals are constantly required to project a positive professional and guiding personal impression.

In support of the government initiatives for a more sophisticated, ethical and credible personnel in line with the government's requirement model of "*Fascinating World*" (the ultimate individual who possesses the ideal characteristics and traits needed to cultivate and contribute to a competent workforce in underwater excursion) towards making Malaysia a society of impeccable values and substance.

#### Nature of Work

The work of the scuba dive operation personnel L3 revolves around field of scuba diving. This training occupation includes the integration of knowledge and skills, which involves logistic maintenance, diver reception handling, safety briefing, scuba dive excursion and post diving activities.

#### **Pre-requisite**

The minimum entry qualifications are those with interest to work in the area as mentioned above. The candidate must be able to read, write and possess analytical skill and desirous to advance in the field of scuba diving. Besides, the candidate also must:

- Certified as a Advanced open water diver and rescue diver
- 18 years old
- 40 Logged dives
- Completed EFR Training within 24 months

• Medically evaluated and cleared for diving by a physician within 12 months

#### **Certification requirements**

Dive master must meet course performance requirements and:-

- Complete knowledge development segments
- Knowledge reviews in dive master manual and the dive master final exam
- Create an emergency assistance plan for a designated dive site
- Complete stamina and water skills exercises
- Complete a diver rescue assessment
- Complete the dive skills
- Complete practical application skills
- Complete an internship or practical assessment

At time of certification, verified diver has:

- Logged at least 60 scuba dive including experience in night diving, deep diving and underwater navigation
- Completed EFR training within 24 months
- Read and agreed to membership and license agreement

#### 2. EXISTING OCCUPATIONAL STRUCTURE

Sector	/ & Tourism <i>Pelancongan)</i>					
Sub- sector	Recreation (Rekreasi)					
Area		Scuba Diving Skuba Rekreasi)				
Alea	Skill Services (Perkhidmatan Kemahiran)	Skill Development (Pembangunan Kemahiran)				
L5	U-010-5 Recreational SCUBA Dive Operations Manager (Pengurus Operasi Selam Skuba Rekreasi) (22-04-99) (22-04-99) (22-04-99)					
L4	<b>U-010-4</b> Recreational SCUBA Dive Operations Executive (Eksekutif Operasi Selam Skuba Rekreasi) (22-04-99)	U-020-4 Recreational SCUBA Diving Instructor (Jurulatih Selam Skuba Rekreasi) (22-04-99)				
L3	<b>HT-400-3</b> Recreational SCUBA Dive Guide (Pemandu Selam Skuba Rekreasi) (22-04-99)	U-020-3 Recreational SCUBA Dive Master (Ketua Selam Skuba Rekreasi) (22-04-99)				
L2	No Level (Tiada Tahap)					
L1	No Level (Tiada Tahap)					

## Figure 1.1 Existing Occupational Framework Matrix for Recreation – Sub-sector of Hospitality & Tourism in Malaysia

### **PROPOSED OCCUPATIONAL STRUCTURE (OAA)**

Sector	Hospitality & Tourism (Hospitaliti & Pelancongan)				
Sub- sector	Recreation (Rekreasi)				
Area	Recreational Scuba Diving (Penyelaman Skuba Rekreasi)				
Alea	Skill Services Skill Development (Perkhidmatan Kemahiran) (Pembangunan Kemahiran)				
L5	SCUBA DIVE OPERATION MANAGEMENT				
L4	SCUBA DIVE OPERATION MANAGEMENT				
L3	SCUBA DIVE OPERATION				
L2	No Level (Tiada Tahap)				
L1	No Level (Tiada Tahap)				

Figure 1.2 Proposed Occupational Framework Matrix for Recreation – Sub-sector of Hospitality & Tourism in Malaysia

#### 3. DEFINATION OF COMPETENCY LEVEL

The NOSS is developed for various occupational areas. Candidates for certification must be assessed and trained at certain levels to substantiate competencies. Below is the ISA guideline of each NOSS Level as defined by the Department of Skills Development, Ministry of Human Resources, Malaysia.

Malaysia Skills Certificate: Level 1	Competent in performing a range of varied work activities, most of which are routine and predictable.
Malaysia Skills Certificate: Level 2	Competent in performing a significant range of varied work activities, performed in a variety of contexts. Some of the activities are non-routine and require individual responsibility and autonomy.
Malaysia Skills Certificate: Level 3	Competent in performing a broad range of varied work activities, performed in a variety of contexts, most of which are complex and non- routine. There is considerable responsibility and autonomy and control or guidance of others is often required.
Malaysia Skills Diploma: Level 4	Competent in performing a broad range of complex technical or professional work activities performed in a wide variety of contexts and with a substantial degree of personal responsibility and autonomy. Responsibility for the work of others and allocation of resources is often present.
Malaysia Skills Advanced Diploma: Level 5	Competent in applying a significant range of fundamental principles and complex techniques across a wide and often unpredictable variety of contexts. Very substantial personal autonomy and often significant responsibility for the work of others and for the allocation of substantial resources feature strongly, as do personal accountabilities for analysis, diagnosis, planning, execution and evaluation.

#### 4. MALAYSIAN SKILL CERTIFICATION

Candidates, after being assessed and verified as having fulfilled the Malaysian Skills Certification requirements, shall be awarded with *Sijil Kemahiran Malaysia* (SKM) for Level 3.

This NOSS outlines competency unit and competency profile in the Scuba Dive Operation working environment as required by the industry and has been developed and documented following extensive collaboration across key Malaysian organisations. To meet the requirements of this industry, it is imperative that the competency unit and competency profile outlined follow a high standard as well as maintenance of consistency throughout the assessment process. This can only be done by stipulating a precise framework in which the assessment of competency unit and competency profile must be conducted. The training & assessment of a hairdressing practitioner must be deployed in accordance with *JPK* policy and in adherence to the Code of Recreational Scuba Dive Operation in tourism and hospitality in rigorous process and standard.

#### 5. JOB COMPETENCIES

The Scuba Dive Operation (L3) is competent in performing the following core competencies:-

- Scuba Dive Logistic Maintenance
- Diver Reception Handling
- Scuba Dive Safety Briefing
- Scuba Dive Excursion
- Post Diving Activities
- Diving Activity Support

Optionally, the Scuba Dive Operation (Level 3) personnel are competent in performing the following elective competency:-

- Emergency First Response Instructor Training
- Discover Scuba Diving Leadership

#### 6. WORKING CONDITIONS

Generally, scuba dive operation L3 trained under this training program is eligible to be employed in the hospitality and tourism sector. The work environment of scuba dive operation level 3 requires good skills of knowledge development, water skills and practical application.

#### 7. EMPLOYMENT PROSPECTS

The increased awareness of the need to manage dive operation to have a better personal, professional and social life, the demand of scuba dive operation is increasing. Individuals can have the following benefits by creating a positive profession.

As Malaysia had identified in the Tenth Malaysian Plan, the existence of dive operation profession will increase employment prospect and also an involvement in the Malaysian Tourism industry will be an important enabler for Malaysia to position itself at the international level. Employment growth in the dive operation is significant and is in current demand. The recreational scuba dive operation industry is growing rapidly in Malaysia and there is an acute shortage of well-trained personnel in this area.

- The Diving Contractor must appoint, in writing, a fully competent diving supervisor for every diving operation'
- Every diving operation must be risk assessed for the form of diving to be undertaken, for the environmental conditions and for the task to be undertaken
- Every diver employed in a diving operation must be competent to undertake the tasks and must comply with the conditions of diving at work
- Decompression must be planned in accordance with an accepted decompression table
- Divers must have a valid certificate of medical fitness issued by necessary levels of experience and competency of scuba divers and scuba instructors
- Safety practices and requirements for recreational scuba diving service providers appropriate to the different diving levels
- Plan and execute emergency procedures appropriate for the diving environment and activities
- Planning and implementation of safe diving practices by identifying hazards, limitations and responsibilities of each member of the dive team through to administrative levels of management for all aspects of diving.

Other related occupation with respect to employment opportunities are:

- Commercial dive guide
- Professional dive guide
- Recreational park administrator

Other related industries with respect to employment opportunities are:

- Education
- Training Centres
- Facilitators
- Tourism

# 8. TRAINING, INDUSTRIAL/PROFESSIONAL RECOGNITION, QUALIFICATIONS AND ADVANCEMENTS

As for career advancement, most competent Scuba Dive Operation L3 learns their competency on the job. They usually begin as qualified divers and gradually learn their new skills as they gain experience for career advancement.

### 9. SOURCES OF ADDITIONAL INFORMATION

- Professional Association of Diving Instructor (PADI) PADI Asia Pacific Unit 3, 4 Skyline PI, French Forest NSW 2086, Sydney Australia Tel: +612-9454 2888 Fax: +612-9454 2999 Website : www.padi.com
- National Association of Underwater Instructors (NAUI) PO.BOX 89789 Tampa, FL 33689-0413 USA Tel : 813-628-6284 / 800-553-6284 Fax : 813-628-8253 Website: www.naui.org
- Malaysia Scuba Diving Association (MSDA) No.43-1, Jalan 2A/27A Wangsa Maju, Seksyen 1 53300 Kuala Lumpur Tel : 603-4149 2828 Fax : 603-4149 9036 Website: www.msda. my

#### **10. ACKNOWLEDGEMENT**

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This standard has been checked by the Standard Technical Evaluation Committee (STEC). Panel members of STEC are listed below:

- En Shamsul Azman Bin Sulaiman Flora Bay Divers
- En Diki Zulkarnain Bin Md. Sahrom Aqua Trade Sdn Bhd

### 11. COMMITTEE MEMBERS FOR DEVELOPMENT OF STANDARD PRACTICE (SP), COMPETENCY PROFILE CHART (CPC), COMPETENCY PROFILE (CP) AND CURRICULUM OF COMPETENCY UNIT (CoCU)

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### SCUBA DIVE OPERATION LEVEL 3

# COMPETENCY PROFILE CHART (CPC)

SECTOR	HOSPITALITY & TOURISM			
SUB-SECTOR	RECREATION			
JOB AREA	SCUBA DIVING OPERATION			
JOB LEVEL	THREE (3)JOB AREA CODEHT-400-3:2013			

←		←		COMPETENCY UNIT	$\longrightarrow$
	CORE	SCUBA DIVE LOGISTIC MAINTENANCE	DIVER RECEPTION HANDLING	SCUBA DIVE SAFETY BRIEFING	SCUBA DIVE EXCURSION
		HT-400-3:2013-C01	HT-400-3:2013-C02	HT-400-3:2013-C03	HT-400-3:2013-C04
		POST DIVING ACTIVITIES	DIVING ACTIVITY SUPPORT		
		HT-400-3:2013-C05	HT-400-3:2013-C06		
	ELECTIVE	EMERGENCY FIRST RESPONSE INSTRUCTOR (EFRI) TRAINING	DISCOVER SCUBA DIVING (DSD) LEADERSHIP		
		HT-400-3:2013-E01	HT-400-3:2013-E02		

# COMPETENCY PROFILE (CP)

Sub-Sector	RECREATION				
Job Area	SCUBA DIVE OPERATION				
Level	THREE (3)				
CU Title	CU Code	CU Descriptor	CU Work Activities	Performance Criteria	
1. Scuba Dive Logistic Maintenance	HT-400- 3:2013-C01	The CU title describes the competency in scuba dive logistic maintenance. He or she is the person who is involved in maintaining and servicing scuba dive equipment. He or she is also the person to ensure proper record in equipment movement. The person who is competent in this CU shall be able to identify scuba dive logistic maintenance requirement, prepare scuba dive equipment maintenance schedule, maintain scuba dive equipment, carry out dive centre housekeeping, prepare boat for diving and report scuba dive logistic maintenance to superior. The outcome of this competency is to ensure that all scuba dive equipment and dive centre area is well maintained.	<ol> <li>Identify scuba dive logistic maintenance requirement</li> </ol>	<ul> <li>1.1 Scuba dive logistic maintenance scope of works determined according to company requirement</li> <li>1.2 Scuba dive equipment standard determined according to industrial standards</li> <li>1.3 Scuba dive equipment determined according to industrial standards</li> <li>1.4 Scuba dive equipment maintenance period determined according to manufacturer and industrial standards</li> <li>1.5 Regulatory bodies rules and regulation related to scuba dive logistic maintenance determined</li> </ul>	

CU Title	CU Code	CU Descriptor	CU Wo	ork Activities	Performance Criteria
		The personnel who will be competent in this competency must in prior have the following competencies: i. Not applicable	2. Prepare s equipmen schedule	t maintenance	<ul> <li>2.1 Types and function of scuba dive equipment identified according to industrial requirement</li> <li>2.2 Types of equipment for scheduled maintenance such as tank, regulator set and dive computer determined according to manufacturer requirement</li> <li>2.3 Scuba dive equipment maintenance schedule format determined</li> <li>2.4 Scuba dive equipment maintenance schedule produced</li> </ul>
			3. Maintain s equipmen	t	<ul> <li>3.1 Diving mask condition checked according to manufacturer specification</li> <li>3.2 BCD for leak checked according to manufacturer specification</li> <li>3.3 Inflator and deflator button mechanism functioning checked according to manufacturer specification</li> <li>3.4 Releases functioning checked according to manufacturer specification</li> <li>3.5 Safety dump valve functioning checked according to manufacturer specification</li> </ul>

CU Title	CU Code	CU Descriptor	CU Work Activities	Performance Criteria
				<ul> <li>3.6 Regulator functioning checked according to manufacturer specification</li> <li>3.7 Dive computer functioning checked according to manufacturer specification</li> <li>3.8 Fin condition checked according to manufacturer specification</li> <li>3.9 Wet suit condition checked according to manufacturer specification</li> <li>3.10 Snorkel condition checked according to manufacturer specification</li> <li>3.11 Scuba tank condition checked according to manufacturer specification</li> <li>3.12 Scuba tank refilled according to manufacturer specification</li> <li>3.13 Scuba regulator serviced according to manufacturer specification</li> <li>3.14 Breathing air compressor serviced according to manufacturer specification</li> <li>3.15 Scuba tank servicing arranged according to manufacturer specification</li> </ul>

CU Title	CU Code	CU Descriptor	CU Work Activities	Performance Criteria
			4. Carry out dive centre housekeeping	<ul> <li>4.1 Dive centre area determined</li> <li>4.2 Dive centre area cleaning tools, equipment and materials selected according to cleaning requirement</li> <li>4.3 Proper housekeeping for dive centre area maintained according to SOP</li> </ul>
			5. Prepare boat for diving	<ul> <li>5.1 Dive boat tidiness confirmed according to SOP</li> <li>5.2 Dive boat safety equipment conditions checked according to SOP</li> <li>5.3 Dive boat light conditions checked according to SOP</li> <li>5.4 Dive boat compass checked according to SOP</li> <li>5.5 First aid kits condition checked according to SOP</li> <li>5.6 Dive boat communication functioning checked according to SOP</li> <li>5.7 Emergency oxygen resuscitator tank checked according to SOP</li> <li>5.8 Dive boat fire extinguisher checked according to SOP</li> <li>5.8 Dive boat fire extinguisher checked according to SOP</li> <li>5.9 Regulatory bodies rules and regulation related to dive boat complied</li> </ul>

	CU Title	CU Code	CU Descriptor		CU Work Activities	Performance Criteria
				6.	Report scuba dive logistic maintenance to superior	<ul> <li>6.1 Scuba dive logistic maintenance reporting format determined</li> <li>6.2 Scuba dive logistic maintenance reporting contents determined</li> <li>6.3 Scuba dive logistic maintenance report prepared</li> </ul>
2	Diver Reception Handling	HT-400- 3:2013-C2	The CU title describes the competency in diver reception handling. He or she is the person who is providing broad planning that applies to the overall logistic, emergency planning and preparation for diver. The person who is competent in this	1.	Determine diver reception handling requirement	<ul> <li>1.1 Diver reception handling scope of work identified according to SOP</li> <li>1.2 Diver reception handling standard identified according to SOP</li> <li>1.3 Diver reception handling period identified according to standard safe diving practise</li> </ul>
			CU shall be able to determine diver reception handling requirement, carry out diver registration, prepare diving activity schedule, collate diver safety standard forms, carry out diver equipment fitting and report diver reception handling activity to superior.	2.	Carry out diver registration	<ul> <li>2.1 Greeting protocol applied</li> <li>2.2 Diver health condition identified</li> <li>2.3 Diver certification diving identified</li> <li>2.4 Diver dive log identified</li> <li>2.5 Diving plan proposed</li> </ul>
			The outcome of this competency is to ensure that all divers are satisfied with excellence services provided in accordance with company standard	3.	Prepare diving activity schedule	<ul> <li>3.1 Weather condition evaluated</li> <li>3.2 Water movement evaluated</li> <li>3.3 Diver information and feedback assessed</li> </ul>

CU Title	CU Code	CU Descriptor	CU Work Activities	Performance Criteria
		operating procedure. The personnel who will be competent in this competency must in prior have the following competencies:		<ul><li>3.4 Schedule format and contents confirmed</li><li>3.5 Diving activities schedule presented</li></ul>
		i. Not applicable	<ol> <li>Collate diver safety standard forms</li> </ol>	<ul> <li>4.1 Types of diver safety standard forms identified</li> <li>4.2 Completeness of diver safety standard forms checked</li> <li>4.3 Diver safety standard forms filed</li> </ul>
			5. Carry out diver equipment fitting	<ul> <li>5.1 Types of diver equipment identified</li> <li>5.2 Diver equipment functionality checked</li> <li>5.3 Equipment for discover scuba diver fitted</li> <li>5.4 Suitability of diver equipment monitored</li> <li>5.5 Diver equipment verified using equipment checklist</li> </ul>
			<ol> <li>Report diver reception handling activity to superior</li> </ol>	<ul> <li>6.1 Diver reception handling reporting format determined</li> <li>6.2 Diver reception handling reporting content determined</li> <li>6.3 Diver reception handling report prepared</li> </ul>

CU Title	CU Code	CU Descriptor	CU Work Activities	Performance Criteria
3. Scuba Dive Safety Briefing	HT-400- 3:2013-C03	The CU title describes the competency in scuba dive safety briefing. He or she is the person who responsible in conducting and	<ol> <li>Identify scuba dive safety briefing requirement</li> </ol>	<ul> <li>1.1 Scuba dive objective determined</li> <li>1.2 Scuba dive safety briefing perimeter determined</li> <li>1.3 Scuba dive safety briefing standard determined</li> </ul>
		The person who is competent in this CU shall be able to identify scuba	2. Brief diver before diving	<ul><li>2.1 Greeting protocol applied according to company SOP</li><li>2.2 Dive site condition</li></ul>
		dive safety briefing requirement, brief diver before diving, conduct safety briefing, conduct emergency plan briefing and report scuba dive safety briefing to superior.		explained according to standard dive practice 2.3 Checkout dive for dive site familiarity conducted according to diver level and record
		The outcome of this competency is to ensure that all divers are understood on safety and emergency procedure & technique before every dive. Also to ensure all divers responsible for their own actions.	3. Conduct safety briefing	<ul> <li>3.1 Safe diving practices and procedures reviewed</li> <li>3.2 Dive site location confirmed</li> <li>3.3 Role of divemaster reviewed</li> <li>3.4 Entry and exit techniques</li> </ul>
		The personnel who are to be competent in this competency must in prior have the following competencies: i. Not applicable		<ul> <li>3.4 Entry and exit techniques reviewed</li> <li>3.5 Hand signals reviewed</li> <li>3.6 Buddy team assigned</li> <li>3.7 Underwater environmental awareness disseminated</li> <li>3.8 Bottom time and depth limit applied</li> </ul>
				<ul> <li>3.9 Scuba review for diver who not dive more than 1 year conducted</li> <li>3.10Buddy check conducted</li> </ul>

		Performance Criteria
4. Conc briefi	duct emergency plan fing	<ul> <li>4.1 Common underwater emergency situation in diving reviewed</li> <li>4.2 Emergency oxygen resuscitator located</li> <li>4.3 Emergency first aid kits located</li> <li>4.4 Underwater emergency recall procedure reviewed</li> </ul>
5. Repo	ort scuba dive safety fing to superior	<ul> <li>5.1 Scuba dive safety briefing reporting format determined</li> <li>5.2 Scuba dive safety briefing reporting content determined</li> <li>5.3 Scuba dive safety briefing report prepared</li> </ul>

CU Title	CU Code	CU Descriptor		CU Work Activities	Performance Criteria
4 Scuba Dive Excursion	HT-400- 3:2013-C04	The CU title describes the competency in scuba dive excursion. He or she is the person who is leading the underwater excursion. The person who is competent in this CU shall be able to determine scuba dive excursion requirement, arrange		Determine scuba dive excursion requirement	<ul> <li>1.1 Dive sites, hazard, point of interest and dive site condition identified</li> <li>1.2 Depth / bottom time identified according to safe diving practices</li> <li>1.3 Water entry / exit technique identified according to safe diving practices</li> </ul>
		diver to boat and dive location, arrange diver to water entry, lead scuba dive excursion, supervise safety stop at the end of dive, arrange diver enter the boat and report scuba dive excursion to superior.		Arrange diver to boat and dive location	<ul> <li>2.1 Number of diver confirmed</li> <li>2.2 Equipment completeness checked</li> <li>2.3 Procedure of boat boarding identified</li> <li>2.4 Diver boarding coordinated</li> <li>2.5 Dive location confirmed</li> </ul>
		The outcome of this competency is to ensure the diver would experience and enjoy the wonderful underwater excursion. The personnel who are to be competent in this competency must in prior have the following competencies: i. Not applicable		Arrange diver to water entry	<ul> <li>3.1 Diver prepared for water entry</li> <li>3.2 Diver coordinated to enter the water</li> <li>3.3 Diver safety at water surface checked</li> <li>3.4 Diver signalled to descent</li> <li>3.5 Every diver descent confirmed</li> </ul>
			4.	Lead scuba dive excursion	<ul> <li>4.1 Diver head count in-water conducted</li> <li>4.2 Underwater excursion conducted</li> <li>4.3 Hand signal applied</li> <li>4.4 Depth gauge and air pressure monitored</li> </ul>

CU Title	CU Code	CU Descriptor	CU Work Activities Performance	e Criteria
			<ul> <li>5. Supervise safety stop at the end of dive</li> <li>5.1 3 minute safet meter signalle</li> <li>5.2 Diver at 5 met the surface co</li> <li>5.3 3 minute safet conducted</li> <li>5.4 Diver to ascer</li> </ul>	d er depth from nfirmed y stop
			<ul> <li>6. Arrange diver enter the boat</li> <li>6.1 Technique of boat identified</li> <li>6.2 Diver coordinative boat</li> <li>6.3 Diver head conchecked</li> <li>6.4 Boat departure</li> </ul>	ated to enter unt in the boat
			<ul> <li>7. Report scuba dive excursion to superior</li> <li>7.1 Scuba dive excursion 7.2 Scuba dive excepting contidetermined</li> <li>7.3 Scuba dive exprepared</li> </ul>	at determined cursion ent

CU Title	CU Code	CU Descriptor		CU Work Activities	Performance Criteria
5. Post Diving Activities	HT-400- 3:2013-C05	<ul> <li>The CU title describes the competency in post diving activities.</li> <li>He or She is the person responsible in activities after diving.</li> <li>The person who is competent in this CU shall be able to conduct scuba diving equipment disassemble, conduct surface interval activities and report post diving activities to superior.</li> <li>The outcome of this competency is</li> </ul>	1.	Conduct scuba diving equipment disassemble	<ul> <li>1.1 Boat captain informed for the subsequent dive according to diving schedule</li> <li>1.2 Equipment transfer to dive centre coordinated according to SOP</li> <li>1.3 Equipment disassembly coordinated and monitored according to SOP</li> <li>1.4 Equipment cleaning monitored according to company and manufacturer standard</li> </ul>
		to ensure that the divers are brought back safely; equipment is washed and cleaned accordingly / properly as well as the goal of surface interval is fulfilled. The personnel who are to be competent in this competency must in prior have the following competencies:- i. Not applicable	2.	Conduct surface interval activities	<ul> <li>2.1 PR activities conducted</li> <li>2.2 Debriefing conducted according to company SOP</li> <li>2.3 Dive log documented</li> <li>2.4 Diver feedback gathered according to company SOP</li> <li>2.5 Latest diving product promoted according to company SOP</li> </ul>
			3.	Report post diving activities to superior	<ul> <li>3.1 Post diving activities reporting format determined</li> <li>3.2 Post diving activities reporting content determined</li> <li>3.3 Post diving activities report prepared</li> </ul>

CU Title	CU Code	CU Descriptor	CU Work Activities	Performance Criteria
6. Diving activity support	HT-400- 3:2013-C06	The CU title describes the competency in diving activity support. He or She is the person who conducting additional activity in diving.	<ol> <li>Identify diving activity support requirement</li> </ol>	<ul> <li>1.1 Diving activity support perimeter determined</li> <li>1.2 Diving activity support regulatory bodies guidelines determined</li> <li>1.3 Diving activity support location determined</li> </ul>
		The person who is competent in this CU shall be able to identify diving activity support requirement, guide snorkelling activities, guide skin diving, assist instructor during training and report diving activity support activities to superior. The outcome of this competency is to provide competence, responsible dive practices and experience dive master. The personnel who are to be competent in this competency must in prior have the following competencies:- i. Not applicable	<ol> <li>Guide snorkelling activity</li> <li>Guide skin diving</li> </ol>	<ul> <li>2.1 Snorkelling area determined</li> <li>2.2 Snorkelling equipment determined</li> <li>2.3 Snorkelling equipment functionality explained and demonstrated</li> <li>2.4 Snorkelling skill technique demonstrated</li> <li>2.5 Snorkelling activity monitored</li> <li>3.1 Skin diving area determined</li> <li>3.2 Skin diving equipment determined</li> <li>3.3 Skin diving equipment functionality explained and demonstrated</li> <li>3.4 Breathing technique explained and demonstrated</li> <li>3.5 Skin diving skill technique demonstrated</li> <li>3.6 Skin diving activity monitored</li> </ul>

CU Title	CU Code	CU Descriptor	CU Work Activities	Performance Criteria
			<ol> <li>Assist instructor during training</li> </ol>	<ul> <li>4.1 Training equipment organised</li> <li>4.2 Student divers flow coordinated</li> <li>4.3 Student divers not receiving immediate instructor attention supervised</li> <li>4.4 Buddy teams entering/leaving the water accounted</li> <li>4.5 Student divers with leaning difficulty assisted</li> <li>4.6 Diver problems responded/ prevented</li> <li>4.7 Skill for student divers demonstrated</li> <li>4.8 Environmental assessment conducted</li> <li>4.9 Student divers underwater tour guided</li> <li>4.10 Appropriate pre dive briefing conducted</li> <li>4.11 Continuing education student divers escorted</li> </ul>
			5. Report specialty diving activities to superior	<ul> <li>5.1 Specialty diving activities reporting format determined</li> <li>5.2 Specialty diving activities reporting content determined</li> <li>5.3 Specialty diving activities report prepared</li> </ul>

CU Title	CU Code	CU Descriptor	CU Work Activities	Performance Criteria
7. Emergency First Response Instructor (EFRI) training	HT-400- 3:2013-E01	The CU title describes the competency in Instructor (EFRI) training. He or She is the person to conduct and emergency first response course and also would be the first person to respond to any emergency situation before Emergency Medical Service (EMS). The person who is competent in this CU shall be able to identify EFRI requirement, perform EFRI training and report EFRI activities to superior. The outcome of this competency is to ensure all criteria in responding to an emergency are carried out in proper and safe manner. The personnel who are to be competent in this competency must in prior have the following competencies:- i. Successfully completed the EFR instructor training conducted by an EFR instructor trainer	<ol> <li>Identify EFRI requirement</li> <li>Perform EFRI training</li> </ol>	<ul> <li>1.1 EFRI training scope of work determined</li> <li>1.2 EFRI standard determined according to EFR guidelines</li> <li>1.3 EFR regulatory bodies guidelines determined</li> <li>1.4 Types of care with are primary and secondary determined</li> <li>1.5 Participant profile gathered</li> <li>1.6 Training materials and tools organised</li> <li>1.7 EFRI training schedule prepared</li> <li>2.1 EFRI material usage identified</li> <li>2.2 EFR video previewed</li> <li>2.3 EFR knowledge review conducted</li> <li>2.4 EFR skill practices demonstrated</li> <li>2.5 Student EFR skill practices evaluated</li> <li>2.6 Emergency scenario observed and evaluated</li> <li>2.7 Participant final exam administered</li> <li>2.8 Participant final exam checked</li> <li>2.9 missed question from final exam reviewed</li> <li>2.10Participant record filed according to industrial standard</li> </ul>

CU Title	CU Code	CU Descriptor		CU Work Activities	Performance Criteria
			3.	Report EFRI Instructor training to superior	<ul> <li>3.1 EFRI activities reporting format determined</li> <li>3.2 EFRI activities reporting content determined</li> <li>3.3 EFRI activities report prepared</li> </ul>
8. Discover Scuba Diving (DSD) leadership	HT-400- 3:2013-E2	The CU title describes the competency in DSD leadership. He or She is the person to conduct discovers scuba diving leadership for non certified divers.	1.	Identify DSD leadership requirement	<ul> <li>1.1 DSD standard and procedure determined</li> <li>1.2 DSD leadership perimeter determined</li> <li>1.3 Participant profile gathered</li> </ul>
		The person who is competent in this CU shall be able to identify discover scuba diving leadership requirement, collate DSD standard forms, conduct DSD briefing, carry	2.	Collate DSD standard forms	<ul> <li>2.1 Types of DSD standard forms identified</li> <li>2.2 Completeness of DSD standard forms checked</li> <li>2.3 DSD standard forms filed</li> </ul>
		out equipment setup, conduct DSD activities, report DSD leadership activities to superior. The outcome of this competency is to ensure all participants have under water experience before sign up for diving course.	3.	Conduct DSD briefing	<ul> <li>3.1 Greeting protocol applied according to company SOP</li> <li>3.2 Participant and DSD leader roles explained</li> <li>3.3 DSD briefing guideline reviewed</li> <li>3.4 Equipment usage and function explained according to safety standard</li> </ul>
		The personnel who are to be competent in this competency must in prior have the following competencies:- i. Successfully completed the Discover Scuba Diving (DSD)			3.5 Underwater environmental awareness explained 3.6 DSD technique explained

CU Title	CU Code	CU Descriptor	CU Work Activities	Performance Criteria
		leadership training conducted by instructor.	4. Carry out equipment setup	<ul><li>5.4 Equipment for participant assembled</li><li>5.5 Scuba diving equipment functionality checked</li></ul>
			5. Conduct DSD activities	<ul> <li>5.1 Dive site condition (pool or confined water environment) determined</li> <li>5.2 Equipment usage at surface in shallow water demonstrated</li> <li>5.3 Basic diving skills as per DSD requirement demonstrated</li> <li>5.4 Participant skill practice supervised</li> <li>5.5 Close position for problem solving maintained</li> <li>5.6 Participant problems effectively handled(if any)</li> <li>5.7 All confined water activities organised and controlled</li> </ul>
			6. Report DSD leadership activities to superior	<ul> <li>6.1 DSD leadership reporting format determined</li> <li>6.2 DSD leadership reporting content determined</li> <li>6.3 DSD leadership activities report prepared</li> </ul>

# CURRICULUM of COMPETENCY UNIT (CoCU)

Sub-Sector		RECREATION							
Job Area		SCUBA DIVE	OPERA	TION					
Competency Unit T	itle	SCUBA DIVE	LOGIST	IC MAINTENAN	CE				
Learning OutcomeThe person who is competent in this CU shall be able to ensure all scuba dive equimaintained. Upon completion of this competency unit, trainees will be able to: -Identify scuba dive logistic maintenance requirementPrepare scuba dive equipment maintenance scheduleMaintain scuba dive equipmentCarry out dive centre housekeepingPrepare boat for divingReport scuba dive logistic maintenance to superior					equipment and di	ve center area is well			
Competency Unit I	)	HT-400-3:2013-C01 Level		Level	3	Training Duration	180 Hours	Credit Hours	18
Work Activities	Related k	Knowledge	Rel	ated Skills	Attitude/Safety/ Environmental		Training Hours	Delivery Mode	Assessment Criteria
<ol> <li>Identify scuba dive logistic maintenance requirement</li> </ol>	on scuba maintenar works ii. Industrial scuba dive scuba dive safety req iv. Scuba dive maintenar v. Regulator and regula scuba dive	e equipment uirement					5	Lecture	<ul> <li>Scuba dive logistic maintenance scope of works determined</li> <li>Scuba dive equipment standard determined</li> <li>Scuba dive equipment safety requirement determined</li> <li>Scuba dive equipment</li> </ul>

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
Work Activities	Related Knowledge <ul> <li>DOSH</li> <li>BOMBA</li> <li>Jabatan Laut</li> </ul>	<ul> <li>i. Determine scuba dive logistic maintenance scope of works</li> <li>ii. Determine scuba dive equipment standard</li> <li>iii. Determine scuba dive equipment safety requirement</li> <li>iv. Determine scuba dive equipment maintenance period</li> <li>v. Determine regulatory bodies rules and regulation related to scuba dive logistic</li> </ul>				
		maintenance	<u>Attitude:</u> i. Knowledgeable in identifying scuba dive logistic maintenance requirement			

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
2. Prepare scuba dive equipment maintenance schedule	<ul> <li>i. Types and function of scuba dive equipment such as:</li> <li>Buoyancy Control Device (BCD)</li> <li>Regulator set</li> <li>Scuba tank</li> <li>Mask</li> <li>Fin</li> <li>Wet suit</li> <li>Dry suit</li> <li>Snorkel</li> <li>Dive computer</li> <li>Compass</li> <li>Breathing air compressor</li> <li>Surface marker/buoy</li> <li>Weight system</li> <li>Whistle</li> <li>Torch light</li> <li>Mapping tool</li> <li>Teaching slate</li> <li>Dive knife</li> <li>Types of equipment for scheduled maintenance such as:</li> <li>Scuba tank</li> <li>Regulator set</li> <li>Dive computer</li> </ul>			5	Lecture	<ul> <li>i. Types and function of scuba dive equipment identified</li> <li>ii. Types of equipment for scheduled maintenance determined</li> <li>iii. Scuba dive equipment maintenance schedule format determined</li> <li>iv. Scuba dive equipment maintenance schedule produced</li> </ul>

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	format iv. Preparation of scuba dive equipment maintenance schedule					
		<ul> <li>i. Identify types and function of scuba dive equipment</li> <li>ii. Determine types of equipment for scheduled maintenance</li> <li>iii. Determine scuba dive equipment maintenance schedule format</li> <li>iv. Produce scuba dive equipment maintenance schedule</li> </ul>	<u>Attitude:</u> i. Detail in preparing scuba dive equipment maintenance schedule	13	Demonstration & Observation	

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
3. Maintain scuba dive equipment	<ul> <li>i. The importance of scuba diving equipment maintenance</li> <li>ii. Checking of standard diver equipment such as: <ul> <li>Diving mask condition</li> <li>BCD for leak</li> <li>Inflator and deflator mechanism</li> <li>Releases functioning</li> <li>Safety dump valve functioning</li> <li>Regulator functioning</li> <li>Dive computer functioning</li> <li>Fin condition</li> <li>Wet suit condition</li> <li>Scuba tank condition</li> <li>Scuba tank condition</li> <li>iii. Procedure of refilling scuba tank</li> <li>iv. Servicing of scuba regulator</li> <li>v. Servicing of breathing air compressor</li> <li>vi. Arrangement of scuba tank servicing</li> </ul> </li> </ul>			22	Lecture	<ul> <li>i. Diving mask condition checked</li> <li>ii. BCD for leak checked</li> <li>iii. Inflator and deflator mechanism functioning checked</li> <li>iv. Releases functioning checked</li> <li>v. Safety dump valve functioning checked</li> <li>vi. Regulator functioning checked</li> <li>vi. Regulator functioning checked</li> <li>vii. Dive computer functioning checked</li> <li>viii. Fin condition checked</li> <li>viii. Fin condition checked</li> <li>viii. Fin condition checked</li> <li>x. Wet suit condition checked</li> <li>x. Snorkel condition checked</li> <li>xi. Scuba tank condition checked</li> <li>xii. Scuba tank</li> </ul>

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
		<ul> <li>i. Check diving mask condition</li> <li>ii. Check BCD for leak</li> <li>iii. Check inflator and deflator mechanism functioning</li> <li>iv. Check releases functioning</li> <li>v. Check safety dump valve functioning</li> <li>vi. Check regulator functioning</li> <li>vii. Check dive computer functioning</li> <li>viii. Check fin condition</li> <li>ix. Check wet suit condition</li> <li>x. Check snorkel condition</li> <li>xi. Check scuba tank condition</li> <li>xii. Refill scuba tank</li> <li>xiii. Service scuba regulator</li> <li>xiv. Service breathing air compressor</li> <li>xv. Arrange scuba tank servicing</li> </ul>	<u>Attitude:</u> i. Proactive and patient in maintaining scuba dive equipment	50	Demonstration & Observation	refilled xiii. Scuba regulator serviced xiv. Breathing air compressor serviced xv. Scuba tank servicing arranged

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
			<ul> <li>ii. Follow equipment maintenance schedule</li> <li><u>Safety:</u> <ol> <li>Adhere to safety and precaution procedures</li> </ol> </li> </ul>			
4. Carry out dive centre housekeeping	<ul> <li>i. Dive centre area such as: <ul> <li>Equipment store</li> <li>Compressor area</li> <li>Equipment cleaning area</li> <li>Pool area</li> <li>Shower area</li> </ul> </li> <li>ii. Selection of dive centre area cleaning tools, equipment and materials such as: <ul> <li>Broom</li> <li>Brush</li> <li>Fresh water</li> <li>Detergent</li> <li>Pipe hose</li> </ul> </li> <li>iii. Housekeeping of dive centre area</li> </ul>			5	Lecture	<ul> <li>i. Dive centre area determined</li> <li>ii. Dive centre area cleaning tools, equipment and materials selected</li> <li>iii. Proper housekeeping for dive centre area maintained</li> </ul>
		<ul> <li>i. Determine dive centre area</li> <li>ii. Select dive centre area cleaning tools, equipment and</li> </ul>		13	Demonstration & Observation	

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
		materials iii. Maintain proper housekeeping for dive centre area	<u>Attitude:</u> i. Meticulous in maintaining proper housekeeping for dive centre area <u>Safety:</u> i. Adhere to safety and precaution procedures			
5. Prepare boat for diving	<ul> <li>i. The importance of checking boat for diving</li> <li>ii. Tidiness of dive boat</li> <li>iii. Checking boat for diving such as: <ul> <li>Dive boat safety equipment conditions</li> <li>Dive boat light conditions</li> <li>Dive boat compass</li> <li>First aid kits condition</li> <li>Dive boat compass</li> </ul> </li> </ul>			11	Lecture	<ul> <li>i. Dive boat tidiness confirmed</li> <li>ii. Dive boat safety equipment conditions checked</li> <li>iii. Dive boat light conditions checked</li> <li>iv. Dive boat compass checked</li> <li>v. First aid kits condition checked</li> <li>vi. Dive boat compass</li> <li>vi. First aid kits condition checked</li> <li>vi. Dive boat communication</li> </ul>

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
Work Activities	Related Knowledge • Dive boat fire extinguisher	<ul> <li>i. Confirm dive boat tidiness</li> <li>ii. Check dive boat safety equipment conditions</li> <li>iii. Check dive boat light conditions</li> <li>iv. Check dive boat compass</li> <li>v. Check first aid kits condition</li> <li>vi. Check dive boat communication tools functioning</li> </ul>				
		<ul> <li>vii. Check dive boat emergency oxygen resuscitator tank</li> <li>viii. Check dive boat fire extinguisher</li> <li>ix. Comply to regulatory bodies rules and regulation related to dive boat</li> </ul>	<u>Attitude:</u> i. Responsible and detail in checking boat for diving <u>Safety:</u> i. Adhere to safety and precaution procedures			

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
6. Report scuba dive logistic maintenance to superior	<ul> <li>Scuba dive logistic maintenance reporting format</li> <li>Scuba dive logistic maintenance reporting contents</li> <li>Preparation of scuba dive logistic maintenance report</li> </ul>	i. Determine scuba dive logistic	Environmental	13	Lecture Demonstration &	i. Scuba dive logistic maintenance reporting format determined ii. Scuba dive logistic maintenance reporting contents determined iii. Scuba dive
		<ul> <li>iii. Determine scuba dive logistic maintenance reporting contents</li> <li>iii. Prepare scuba dive logistic maintenance report</li> </ul>	<u>Attitude:</u> i. Meticulous in writing scuba dive logistic maintenance report ii. Adhere to report submission dateline		Observation	logistic maintenance report prepared

Core Abilities	Social Skills
<ul> <li>01.01 Identify and gather information.</li> <li>01.02 Document information procedures or processes.</li> <li>02.01 Interpret and follow manuals, instructions and SOP.</li> <li>02.03 Communicate clearly.</li> <li>02.04 Prepare brief reports and checklist using standard forms.</li> <li>02.05 Read/Interpret flowcharts and pictorial information.</li> <li>03.02 Demonstrate integrity and apply practical practices.</li> <li>03.03 Accept responsibility for own work and work area.</li> <li>03.04 Seek and act constructively upon feedback about work performance.</li> <li>03.06 Respond appropriately to people and situations.</li> <li>03.07 Resolve interpersonal conflicts.</li> <li>06.01 Understand systems.</li> <li>06.02 Comply with and follow chain of command.</li> <li>06.03 Identify and highlight problems.</li> <li>06.04 Adapt competencies to new situations/systems.</li> <li>01.04 Analyse information.</li> <li>03.08 Develop and maintain cooperation within work group.</li> <li>04.01 Organise own work activities.</li> <li>04.02 Set and revise own objectives and goals.</li> <li>04.03 Organise and maintain own workplace.</li> <li>04.04 Apply problem solving strategies.</li> <li>04.05 Demonstrate initiative and flexibility.</li> <li>01.10 Apply a variety of mathematical techniques.</li> <li>01.11 Apply thinking skills and creativity.</li> <li>02.11 Convey information and ideas to people.</li> <li>03.09 Manage and improve performance of individuals.</li> <li>03.13 Develop and maintain team harmony and resolve conflicts.</li> <li>03.14 Facilitate and coordinate teams and ideas.</li> <li>03.15 Liaise to achieve identified outcomes.</li> <li>04.06 Allocate work.</li> <li>04.07 Negotiate acceptance and support for objectives and strategies.</li> <li>05.01 Implement project/work plans.</li> <li>05.02 Inspect and monitor work done and/or in progress</li> </ul>	<ol> <li>Communication skills</li> <li>Conceptual skills</li> <li>Interpersonal skills</li> <li>Multitasking and prioritising</li> <li>Self-discipline</li> <li>Teamwork</li> <li>Learning skills</li> <li>Leadership skills</li> </ol>

ITEMS	RATIO (TEM : Trainees)	
1. Stationery	As required	
2. Hand tool sets	1:1	
3. Buoyancy Control Device (BCD)	1:2	
4. Regulator set	1:2	
5. Tank	1:5	
6. Mask	1:1	
7. Fin	1:1	
8. Wet suit	1:1	
9. Dry suit	1:25	
10. Snorkel	1:1	
11. Dive computer	1:2	
12. Compass	1:1	
13. Surface marker	1:5	
14. Weight system	1:1	
15. Whistle	1:1	
16. Torch light	1:1	
17. Mapping tool	1:1	
18. Teaching slate	1:1	
19. Dive knife	1:1	
20. Broom	1:1	
21. Brush	As required	
22. Fresh water	As required	
23. Detergent	1:1	
24. Pipe hose	1:1	
25. First aid kits	1:5	
26. Dive boat	1:25	
27. Compressor	1:25	
28. Oxygen resuscitator	1:10	
29. Boat ladder	As required	
30. Report format	1:1	

1.	Drew Richardson, Ed.D., PADI (2010), Dive Master Manual, ISBN: 978-1-878663-07-8
2.	Dennis K Graver, Scuba Diving,ISBN-10:0-7360-1727
3.	John Bantin, Publication Aigust 17 (2007), The Scuba Diving Handbook ISBN-10-1554072808
4.	Tim Rock, (1999), Diving & Snorkling Guide, ISBN: 0864427441
5.	Paul Lees, Mc Grew Hill (1997) Diving & Snorkling Guide To Thailand, ISBN: 084428495

# CURRICULUM of COMPETENCY UNIT (CoCU)

Sub-Sector		RECREATION	٨						
Job Area	SCUBA DIVE OPERATION								
Competency Unit T	itle	DIVER RECE	PTION HAN	DLING					
Learning Outcome       The person who is competent in this CU shall be able to ensure all divers are satisfied with excellence s provided in accordance with company standard operating procedure. Upon completion of this competent trainees will be able to: -         • Determine diver reception handling requirement         • Carry out diver registration         • Prepare diving activity schedule         • Collate diver safety standard forms         • Carry out diver reception handling activity to superior									
Competency Unit I	)	HT-400-3:2	013-C02	Level	3	Training Duration	120 Hours	Credit Hours	12
Work Activities	Related	Knowledge	Rela	ated Skills		le/Safety/ onmental	Training Hours	Delivery Mode	Assessment Criteria
<ol> <li>Determine diver reception handling requirement</li> </ol>	on diver handling ii. Industria	y requirement reception scope of works al standards on ception handling	handlir ii. Identify handlir iii. Identify	v diver reception ng scope of work v diver reception ng standard v diver reception ng period			5	Lecture Demonstration & Observation	<ul> <li>Diver reception handling scope of work identified</li> <li>Diver reception handling standard identified</li> <li>Diver reception handling period identified</li> </ul>

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
			<u>Attitude:</u> i. Knowledgeable in determining diver reception handling requirement			
2. Carry out diver registration	<ul> <li>i. Types of diver which are:</li> <li>Non certified diver /discover scuba diver</li> <li>Certified diver</li> <li>ii. Greeting protocol</li> <li>iii. Diver health condition</li> <li>iv. Diver certification level</li> <li>v. Diver dive log</li> <li>vi. Dive planning</li> </ul>			5		<ul> <li>i. Greeting protocol applied</li> <li>ii. Diver health condition identified</li> <li>iii. Diver certification level identified</li> <li>iv. Diver dive log identified</li> <li>v. Diving plan</li> </ul>
		<ul> <li>i. Apply greeting protocol</li> <li>ii. Identify diver health condition</li> <li>iii. Identify diver certification level</li> <li>iv. Identify diver dive log</li> <li>v. Propose diving plan</li> </ul>		13		proposed
			<u>Attitude:</u> i. Hospitable in greeting divers			

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
3. Prepare diving activity schedule	<ul> <li>i. Weather condition</li> <li>ii. Water movement</li> <li>iii. Diver information and feedback such as: <ul> <li>Number of diver</li> <li>Level of certification</li> </ul> </li> <li>iv. Diving schedule format and contents</li> <li>v. Preparation of diving activities schedule</li> </ul>			5	Lecture	<ul> <li>Weather condition evaluated</li> <li>Water movement evaluated</li> <li>Diver information and feedback assessed</li> <li>Schedule</li> </ul>
		<ul> <li>i. Evaluate weather condition</li> <li>ii. Evaluate water movement</li> <li>iii. Asses diver information and feedback</li> <li>iv. Confirm schedule format and contents</li> <li>v. Present diving schedule</li> </ul>	<u>Attitude:</u> i. Knowledgeable and responsible in preparing diving activity schedule	13	Demonstration & Observation	format and contents confirmed v. Diving schedule presented

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
<ol> <li>Collate diver safety standard forms</li> </ol>	<ul> <li>i. Types of diver safety standard forms such as:</li> <li>Liability release form</li> <li>Safe diving practice</li> <li>Medical statement form</li> <li>Supporting documents</li> <li>Checking of completeness of diver safety standard forms</li> <li>iii. Filling of diver safety standard forms</li> </ul>			5		<ul> <li>i. Types of diver safety standard forms identified</li> <li>ii. Completeness of diver safety standard forms checked</li> <li>iii. Diver safety standard forms filed</li> </ul>
		<ul> <li>i. Identify types of diver safety standard forms</li> <li>ii. Check completeness of diver safety standard forms</li> <li>iii. File diver safety standard forms</li> </ul>	<u>Attitude:</u> i. Responsible and detail in preparing diver safety standard forms	13		

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
5. Carry out diver equipment fitting	<ul> <li>i. Types of dive equipment such as:</li> <li>Buoyancy Control Device (BCD)</li> <li>Regulator set</li> <li>Tank</li> <li>Mask</li> <li>Fin</li> <li>Wet suit</li> <li>Dry suit</li> <li>Snorkel</li> <li>Dive computer</li> <li>Compass</li> <li>Surface marker</li> <li>Weight system</li> <li>Whistle</li> <li>ii. The importance of checking dive equipment functionality</li> <li>iii. Monitoring of dive equipment suitability</li> <li>iv. Verification of dive equipment checklist</li> </ul>			9		<ul> <li>i. Types of diver equipment identified</li> <li>ii. Diver equipment functionality checked</li> <li>iii. Equipment for discover scuba diver fitted</li> <li>iv. Suitability of diver equipment monitored</li> <li>v. Diver equipment using equipment checklist verified</li> </ul>
		<ul> <li>i. Identify types of dive equipment</li> <li>ii. Check dive equipment functionality</li> <li>iii. Monitor suitability of dive equipment</li> <li>iv. Verify dive equipment using equipment checklist</li> </ul>		21		

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
			<u>Attitude:</u> i. Responsible and professional in carried out diver equipment fitting <u>Safety:</u> i. Adhere to safety and precaution procedures			
6. Report diver reception handling activity to superior	<ul> <li>i. Diver reception handling activity reporting format</li> <li>ii. Diver reception handling activity reporting content</li> <li>iii. Preparation of diver reception handling activity report</li> </ul>			5	Lecture	i. Diver reception handling activity reporting format determined ii. Diver
		<ul> <li>Determine diver reception handling activity reporting format</li> <li>Determine diver reception handling activity reporting content</li> <li>Prepare diver reception handling activity report</li> </ul>	<u>Attitude:</u> i. Meticulous in writing diver reception handling activity report	13	Demonstration & Observation	reception handling activity reporting content determined iii. Diver reception handling activity report prepared

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
			ii. Adhere to report submission			
			dateline			

Core Abilities	Social Skills
<ul> <li>01.01 Identify and gather information.</li> <li>01.02 Document information procedures or processes.</li> <li>02.01 Interpret and follow manuals, instructions and SOP.</li> <li>02.03 Communicate clearly.</li> <li>02.04 Prepare brief reports and checklist using standard forms.</li> <li>02.05 Read/Interpret flowcharts and pictorial information.</li> <li>03.02 Demonstrate integrity and apply practical practices.</li> <li>03.03 Accept responsibility for own work and work area.</li> <li>03.04 Seek and act constructively upon feedback about work performance.</li> <li>03.06 Respond appropriately to people and situations.</li> <li>03.07 Resolve interpersonal conflicts.</li> <li>06.01 Understand systems.</li> <li>06.02 Comply with and follow chain of command.</li> <li>06.03 Identify and highlight problems.</li> <li>06.04 Adapt competencies to new situations/systems.</li> <li>01.04 Analyse information.</li> <li>03.08 Develop and maintain cooperation within work group.</li> <li>04.01 Organise own work activities.</li> <li>04.02 Set and revise own objectives and goals.</li> <li>04.03 Organise and maintain own workplace.</li> <li>04.04 Apply problem solving strategies.</li> <li>04.05 Demonstrate initiative and flexibility.</li> <li>01.10 Apply a variety of mathematical techniques.</li> <li>01.11 Apply thinking skills and creativity.</li> <li>02.11 Convey information and ideas to people.</li> <li>03.09 Manage and improve performance of individuals.</li> <li>03.13 Develop and maintain team harmony and resolve conflicts.</li> <li>03.14 Facilitate and coordinate teams and ideas.</li> <li>03.15 Liaise to achieve identified outcomes.</li> <li>04.06 Allocate work.</li> <li>04.07 Negotiate acceptance and support for objectives and strategies.</li> <li>05.02 Inspect and monitor work done and/or in progress</li> </ul>	<ol> <li>Communication skills</li> <li>Conceptual skills</li> <li>Interpersonal skills</li> <li>Multitasking and prioritising</li> <li>Self-discipline</li> <li>Teamwork</li> <li>Learning skills</li> <li>Leadership skills</li> </ol>

ITEMS	RATIO (TEM : Trainees)				
<ol> <li>Stationery</li> <li>Diving activities schedule</li> <li>Liability release form</li> <li>Safe diving practice form</li> <li>Medical statement form</li> <li>Buoyancy control device (BCD)</li> <li>Regulator set</li> <li>Tank</li> <li>Mask</li> <li>Fin</li> <li>Wet suit</li> <li>Snorkel</li> <li>Dive computer</li> <li>Compass</li> <li>Surface marker</li> <li>Weight system</li> <li>Whistle</li> <li>Diver reception handling activity report</li> </ol>	1. As required         2. 1:1         3. 1:1         4. 1:1         5. 1:1         6. 1:2         7. 1:2         8. 1:5         9. 1:1         10. 1:1         11. 1:1         12. 1:1         13. 1:2         14. 1:1         15. 1:5         16. 1:1         17. 1:1         18. 1:1         19. 1:1				

- 1. Drew Richardson, Ed.D., PADI (2010), Dive Master Manual, ISBN: 978-1-878663-07-8
- 2. Dennis K Graver, Scuba Diving, ISBN-10:0-7360-1727
- 3. John Bantin, Publication Aigust 17 (2007), The Scuba Diving Handbook ISBN-10-1554072808
- 4. Tim Rock, (1999), Diving & Snorkling Guide, ISBN: 0864427441
- 5. Paul Lees, Mc Grew Hill (1997) Diving & Snorkling Guide To Thailand, ISBN: 084428495
- 6. Ahmad Ismail, Thomson Delmar (2002) Front Office Operations & Management, ISBN:0-7668-2343-1
- 7. Betty A.Kildow, AMACOM (2001), Front Desk Security & Safety, ISBN: 0-8144-0826-5

# CURRICULUM of COMPETENCY UNIT (CoCU)

Sub-Sector	Sector RECREATION								
Job Area		SCUBA DIVE OPERATION							
Competency Unit T	ompetency Unit Title SCUBA DIVE SAFETY BRIEFING								
Learning Outcome	procedure & te of this compete Identify Brief di Conduc Conduc	echnique bef ency unit, tra v scuba dive ver before c ct safety brie ct emergenc	ainees will be able safety briefing rec living	so to ensu to: - quirement	to ensure all c re all divers re	livers are und esponsible for	erstood on safety their own actions	v and emergency s. Upon completion	
Competency Unit II	)	HT-400-3:2			Training Duration	240 Hours	Credit Hours	24	
Work Activities	Related K	Knowledge	Rela	ated Skills	Attitude/Safety/ Environmental		Training Hours	Delivery Mode	Assessment Criteria
<ol> <li>Identify scuba dive safety briefing requirement</li> </ol>	i. Scuba div ii. Scuba div briefing pe iii. Scuba div briefing st	erimeter e safety					5	Lecture	<ul> <li>Scuba dive objective determined</li> <li>Scuba dive safety briefing perimeter</li> </ul>
			objecti ii. Determ safety perime iii. Determ	nine scuba dive briefing			12	Demonstration & Observation	determined iii. Scuba dive safety briefing standard determined

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
			<u>Attitude:</u> i. Knowledgeable in identifying scuba dive safety briefing requirement			
2. Brief diver before diving	<ul> <li>i. Dive site condition for certified diver such as:</li> <li>Water movement <ul> <li>Tides</li> <li>Water temperature</li> <li>Visibility</li> <li>Depth</li> <li>Aquatic life</li> <li>Weather condition</li> <li>Entry/exit point</li> </ul> </li> <li>ii. Factor that contribute to dive limit such as <ul> <li>Depth</li> <li>Breathing technique</li> <li>Movement</li> <li>iii. Purpose of checkout dive</li> </ul> </li> </ul>			18	Lecture	<ul> <li>i. Greeting protocol applied</li> <li>ii. Dive site condition explained</li> <li>iii. Checkout dive for dive site familiarity conducted according to diver level and record</li> </ul>
		<ul> <li>Apply greeting protocol</li> <li>Explain dive site condition according to standard dive practice</li> <li>Conduct checkout dive for dive site familiarity</li> </ul>	<u>Attitude:</u> i. Responsible and detail in briefing discover scuba candidate	22	Demonstration & Observation	

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
3. Conduct safety briefing	<ul> <li>i. Safe diving practices and procedures</li> <li>ii. Dive site description such as : <ul> <li>Site topography</li> <li>Points of interest</li> <li>Depth</li> <li>Bottom composition</li> <li>Currents/ water movement</li> <li>Surface</li> <li>Down</li> <li>Up</li> <li>Rip</li> <li>Expected temperature</li> </ul> </li> <li>iii. Role of divemaster</li> <li>iv. Entry and exit techniques</li> <li>v. Hand signals</li> <li>vi. Purpose of buddy system</li> <li>vii. Factor that should be considered in assigning buddy team such as: <ul> <li>Experience</li> <li>Physical limit</li> <li>Diver interest</li> <li>viii. Underwater environmental awareness</li> <li>ix. Bottom time and decompression limit</li> </ul> </li> </ul>			26		<ul> <li>i. Safe diving practices and procedures reviewed</li> <li>ii. Dive site location confirmed</li> <li>iii. Role of divemaster reviewed</li> <li>iv. Entry and exit techniques reviewed</li> <li>v. Hand signals reviewed</li> <li>v. Hand signals reviewed</li> <li>vi. Buddy team assigned</li> <li>vii. Underwater environmental awareness disseminated</li> <li>viii. Bottom time and depth limit applied</li> <li>ix. Scuba review for diver who not dive more than 1 year conducted</li> <li>x. Buddy check conducted</li> </ul>

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	decompression limit such as: Dive table Bottom timer Dive computer xi. Purpose of scuba review xii. Purpose of conducting buddy checking					
		<ul> <li>i. Review safe diving practices and procedures</li> <li>ii. Relate dive site description</li> <li>iii. Review role of divemaster</li> <li>iv. Review entry and exit techniques</li> <li>v. Review hand signals</li> <li>vi. Assign buddy teams</li> <li>vii. Explain underwater environmental awareness</li> <li>viii. Relate bottom time and depth limit</li> <li>ix. Conduct scuba review for diver who not dive more than 1 year</li> <li>x. Conduct buddy check</li> </ul>	<u>Attitude:</u> i. Responsible and detail in conducting safety briefing	60		

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Delivery Hours Mode	Assessment Criteria
4. Conduct emergency plan briefing	rgency emergency situation in			20	<ul> <li>i. Common underwater emergency situation in diving reviewed</li> <li>ii. Emergency oxygen resuscitator located</li> <li>iii. Emergency first aid kits located</li> </ul>
		<ul> <li>i. Review common underwater emergency situation</li> <li>ii. Point out location of emergency oxygen resuscitator</li> <li>iii. Point out location of emergency first aid kits</li> <li>iv. Review underwater emergency recall procedure</li> </ul>	<u>Attitude:</u> i. Responsible and detail in conducting emergency plan briefing	60	iv. Underwater emergency recall procedure reviewed

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria	
5. Report scuba dive safety briefing to superior	<ul> <li>i. Scuba dive safety briefing reporting format</li> <li>ii. Scuba dive safety briefing reporting content</li> <li>iii. Preparation of scuba dive safety briefing report</li> </ul>			5	Lecture	<ul> <li>Scuba dive safety briefing reporting format determined</li> <li>Scuba dive safety briefing reporting content</li> </ul>	
		<ul> <li>i. Determine scuba dive safety briefing reporting format</li> <li>ii. Determine scuba dive safety briefing reporting content</li> <li>iii. Prepare scuba dive safety briefing report</li> </ul>	<u>Attitude:</u> i. Meticulous in writing scuba dive safety briefing report ii. Adhere to report submission dateline	12	Demonstration & Observation	determined iii. Scuba dive safety briefing report prepared	

Core Abilities	Social Skills
<ul> <li>01.01 Identify and gather information.</li> <li>01.02 Document information procedures or processes.</li> <li>02.01 Interpret and follow manuals, instructions and SOP.</li> <li>02.03 Communicate clearly.</li> <li>02.04 Prepare brief reports and checklist using standard forms.</li> <li>02.05 Read/Interpret flowcharts and pictorial information.</li> <li>03.02 Demonstrate integrity and apply practical practices.</li> <li>03.03 Accept responsibility for own work and work area.</li> <li>03.04 Seek and act constructively upon feedback about work performance.</li> <li>03.05 Resolve interpersonal conflicts.</li> <li>06.01 Understand systems.</li> <li>06.02 Comply with and follow chain of command.</li> <li>06.03 Identify and highlight problems.</li> <li>06.04 Adapt competencies to new situations/systems.</li> <li>01.04 Organise own work activities.</li> <li>04.02 Set and revise own objectives and goals.</li> <li>04.03 Organise and maintain cooperation within work group.</li> <li>04.04 Apply problem solving strategies.</li> <li>04.05 Demonstrate initiative and flexibility.</li> <li>01.10 Apply a variety of mathematical techniques.</li> <li>01.11 Apply thinking skills and creativity.</li> <li>02.11 Convey information and ideas to people.</li> <li>03.09 Manage and improve performance of individuals.</li> <li>03.19 Develop and maintain team harmony and resolve conflicts.</li> <li>03.19 Develop and maintain team harmony and resolve conflicts.</li> <li>03.11 Apply thinking skills and creativity.</li> <li>03.11 Convey information and ideas to people.</li> <li>03.09 Manage and improve performance of individuals.</li> <li>03.14 Facilitate and coordinate teams and ideas.</li> <li>03.15 Liaise to achieve identified outcomes.</li> <li>04.06 Allocate work.</li> <li>04.07 Negotiate acceptance and support for objectives and strategies.</li> <li>05.01 Implement project/work plans.</li> <li>05.02 Inspect and monitor work done and/or in progress</li> </ul>	<ol> <li>Communication skills</li> <li>Conceptual skills</li> <li>Interpersonal skills</li> <li>Multitasking and prioritising</li> <li>Self-discipline</li> <li>Teamwork</li> <li>Learning skills</li> <li>Leadership skills</li> </ol>

ITEMS	RATIO (TEM : Trainees)
1. Stationery	As required
2. Dive table	1:1
3. Bottom timer	1:1
4. Dive computer	1:1
5. Dive map	1:1
6. First aid kits	1:5
7. Emergency oxygen resuscitator	1:10
8. Boat	1:25
9. Scuba dive safety briefing Report format	1:1

- 1. Drew Richardson, Ed.D., PADI (2010), Dive Master Manual, ISBN: 978-1-878663-07-8
- 2. Dennis K Graver, Scuba Diving, ISBN-10:0-7360-1727
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# CURRICULUM of COMPETENCY UNIT (CoCU)

Sub-Sector		RECREATION	1						
Job Area		SCUBA DIVE	SCUBA DIVE OPERATION						
Competency Unit T	itle	SCUBA DIVE	EXCURSIO	N					
Learning OutcomeThe person who is competent in this CU shall be able to e underwater excursion. Upon completion of this competent• Determine scuba dive excursion requirement• Arrange diver to boat and dive location• Arrange diver to water entry• Lead scuba dive excursion• Supervise safety stop at the end of dive• Arrange diver enter the boat• Report scuba dive excursion to superior								njoy the wonderful	
Competency Unit II	)	HT-400-3:20	013-C04	Level	3	Training Duration	300 Hours	Credit Hours	30
Work Activities	Related k	Cnowledge	Rela	ated Skills		de/Safety/ onmental	Training Hours	Delivery Mode	Assessment Criteria
<ol> <li>Determine scuba dive excursion requirement</li> </ol>	such as: Topog Comp Hazar Aquati Wreck ii. Factor tha dive limit s Depth Diver a consu Trainir experi	ic life at contribute to such as: air mption ng and					5	Lecture	<ul> <li>i. Dive site, hazard, point of interest and dive site condition identified</li> <li>ii. Depth / bottom time identified</li> <li>iii. Water entry/exit technique identified</li> </ul>

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
		<ul> <li>i. Identify dive sites, hazard, point of interest and dive site condition</li> <li>ii. Identify depth / bottom time</li> <li>iii. Identify water entry / exit technique</li> </ul>	<u>Attitude:</u> i. Knowledgeable in determining scuba dive excursion requirement	13	Demonstration & Observation	
2. Arrange diver to boat and dive location	<ul> <li>i. Purpose of confirming number of diver</li> <li>ii. The importance of checking equipment completeness</li> <li>iii. Procedure of boat boarding</li> <li>iv. Purpose of confirming dive location</li> <li>v. Coordination of diver boarding</li> </ul>			14		<ul> <li>i. Number of diver confirmed</li> <li>ii. Equipment completeness checked</li> <li>iii. Procedure of boat boarding identified</li> <li>iv. Diver entering the boat instructed</li> </ul>
		<ul> <li>i. Confirm number of diver</li> <li>ii. Check equipment completeness</li> <li>iii. Identify procedure of boat boarding</li> <li>iv. Coordinate diver boarding</li> <li>v. Confirm dive location</li> </ul>		32		v. Dive location confirmed

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
			<u>Attitude:</u> i. Responsible and detail in checking equipment completeness <u>Safety:</u> i. Adhere to safety and precaution procedures			
3. Arrange diver to water entry	<ul> <li>i. Procedure of water entry</li> <li>iii. Technique of water entry such as: <ul> <li>Back roll entry</li> <li>Giant stride</li> <li>Shore entry</li> </ul> </li> <li>ii. Purpose of checking diver safety at water surface</li> <li>iii. Standard diving hand signal</li> <li>iv. Purpose of confirming every diver descent</li> </ul>			14	Lecture	<ul> <li>i. Diver for water entry prepared</li> <li>ii. Diver coordinated to enter the water</li> <li>iii. Diver safety at water surface checked</li> <li>iv. Diver to descent signalled</li> <li>v. Every diver descent confirmed</li> </ul>
		<ul> <li>i. Prepare diver for water entry</li> <li>ii. Coordinate diver to enter the water</li> <li>iii. Check diver safety at water surface</li> <li>iv. Signal diver to descent</li> <li>v. Confirm every diver descent</li> </ul>		32	Demonstration & Observation	

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
			<ul> <li><u>Attitude:</u> <ol> <li>Knowledgeable in conducting standard diving hand signal</li> <li>Responsible in arranging diver to water entry</li> </ol> </li> <li><u>Safety:</u> <ol> <li>Adhere to safety and precaution procedures</li> </ol> </li> </ul>			
4. Lead scuba dive excursion	<ul> <li>i. Purpose for conducting dive head count in-water</li> <li>ii. Underwater excursion</li> <li>iii. Purpose of monitoring depth gauge and air pressure</li> </ul>			23	Lecture	<ul> <li>i. Dive head count in-water conducted</li> <li>ii. Underwater excursion conducted</li> <li>iii. Hand signal applied</li> </ul>
		<ul> <li>i. Conduct dive head count in-water</li> <li>ii. Conduct underwater excursion</li> <li>iii. Apply hand signal</li> <li>iv. Monitor depth gauge and air pressure</li> </ul>		50	Demonstration & Observation	iv. Depth gauge and air pressure monitored

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
			Attitude:i. Dive carefully to protect fragile aquatic ecosystemii. Knowledgeable and responsible in leading scuba dive excursion			
			<u>Safety:</u> i. Adhere to safety and precaution procedures ii. Caution about avoiding things that can scrape, puncture, sting or bite			
			<ul> <li><u>Environmental:</u></li> <li>i. Minimise disturbing or damaging the environment</li> <li>ii. Don't handle, feed or ride on aquatic organism</li> <li>iii. Respect underwater life and underwater cultural heritage</li> <li>iv. Aware of local protected species</li> </ul>			

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
5. Supervise safety stop at the end of dive	<ul> <li>i. Purpose of safety stop such as:</li> <li>Release access nitrogen</li> <li>Reduce the risk of decompression sickness</li> <li>Gauge monitoring such as:</li> <li>Depth</li> <li>Time</li> <li>Air pressure</li> </ul>			21	Lecture	<ul> <li>Make 3 minutes safety stop at 5 meter signalled</li> <li>Diver at 5 meter depth from the surface confirmed</li> <li>Conduct 3 minute safety stop conducted</li> </ul>
		<ul> <li>i. Signal to make 3 minutes safety stop at 5 meter</li> <li>ii. Confirm diver at 5 meter depth from the surface</li> <li>iii. Conduct 3 minute safety stop</li> <li>iv. Signal diver to ascent</li> </ul>	<u>Attitude:</u> i. Responsible in carrying out three minute safety stop <u>Safety:</u> i. Adhere to safety and precaution procedures	48	Demonstration & Observation	iv. Diver to ascent signalled

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
6. Arrange diver enter the boat	<ul> <li>Procedure of entering the boat</li> <li>Purpose of checking diver head count in the boat</li> </ul>			9	Lecture	<ul> <li>Technique of entering the boat identified</li> <li>Diver enter the boat coordinated</li> </ul>
		<ul> <li>i. Identify technique of entering the boat</li> <li>ii. Coordinate diver to enter the boat</li> <li>iii. Check diver head count in the boat</li> <li>iv. Confirm boat departure</li> </ul>	Attitudo	21	Demonstration & Observation	<ul><li>iii. Diver head count in the boat checked</li><li>iv. Boat departure confirmed</li></ul>
			<u>Attitude:</u> i. Responsible in arranging diver enter the boat <u>Safety:</u>			
			i. Adhere to safety and precaution procedures			
7. Report scuba dive excursion to superior	<ul> <li>i. Scuba dive excursion reporting format</li> <li>ii. Scuba dive excursion reporting content</li> <li>iii. Preparation of scuba dive excursion report</li> </ul>			5	Lecture	<ul> <li>Scuba dive excursion reporting format determined</li> <li>Scuba dive excursion reporting content determined</li> </ul>

Work Activities Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	<ul> <li>i. Determine scuba dive excursion reporting format</li> <li>ii. Determine scuba dive excursion reporting content</li> <li>iii. Prepare scuba dive excursion report</li> </ul>	<u>Attitude:</u> i. Meticulous in writing scuba dive excursion report ii. Adhere to report submission dateline	13	Demonstration & Observation	iii. Scuba dive excursion report prepared

Core Abilities	Social Skills
<ul> <li>01.01 Identify and gather information.</li> <li>01.02 Document information procedures or processes.</li> <li>02.01 Interpret and follow manuals, instructions and SOP.</li> <li>02.03 Communicate clearly.</li> <li>02.04 Prepare brief reports and checklist using standard forms.</li> <li>02.05 Read/Interpret flowcharts and pictorial information.</li> <li>03.02 Demonstrate integrity and apply practical practices.</li> <li>03.03 Accept responsibility for own work and work area.</li> <li>03.04 Seek and act constructively upon feedback about work performance.</li> <li>03.06 Respond appropriately to people and situations.</li> <li>03.07 Resolve interpersonal conflicts.</li> <li>06.01 Understand systems.</li> <li>06.02 Comply with and follow chain of command.</li> <li>06.03 Identify and highlight problems.</li> <li>06.04 Adapt competencies to new situations/systems.</li> <li>01.04 Analyse information.</li> <li>03.08 Develop and maintain cooperation within work group.</li> <li>04.01 Organise own work activities.</li> <li>04.02 Set and revise own objectives and goals.</li> <li>04.03 Organise and maintain own workplace.</li> <li>04.04 Apply problem solving strategies.</li> <li>04.05 Demonstrate initiative and flexibility.</li> <li>01.10 Apply a variety of mathematical techniques.</li> <li>01.11 Apply thinking skills and creativity.</li> <li>02.11 Convey information and ideas to people.</li> <li>03.09 Manage and improve performance of individuals.</li> <li>03.19 Develop and maintain team harmony and resolve conflicts.</li> <li>03.11 Apply thinking skills and creativity.</li> <li>03.13 Develop and maintain team harmony and resolve conflicts.</li> <li>03.14 Facilitate and coordinate teams and ideas.</li> <li>03.15 Liaise to achieve identified outcomes.</li> <li>04.06 Allocate work.</li> <li>04.07 Negotiate acceptance and support for objectives and strategies.</li> <li>05.01 Implement project/work plans.</li> <li>05.02 Inspect and monitor work done and/or in progress</li> </ul>	<ol> <li>Communication skills</li> <li>Conceptual skills</li> <li>Interpersonal skills</li> <li>Multitasking and prioritising</li> <li>Self-discipline</li> <li>Teamwork</li> <li>Learning skills</li> <li>Leadership skills</li> </ol>

ITEMS	RATIO (TEM : Trainees)	
1. Stationery	1:1	
2. Buoyancy Control Device (BCD)	1:1	
3. Regulator set	1:1	
4. Scuba tank	1:1	
5. Mask	1:5	
6. Fin	1:1	
7. Wet suit	1:1	
8. Snorkel	1:1	
9. Dive computer	1:5	
10. Compass	1:5	
11. Surface marker	1:1	
12. Weight system	1:1	
13. Whistle	1:1	
14. Touch light	1:1	
15. Mapping tool	1:1	
16. Teaching slate	1:1	
17. Dive knife	1:1	
18. Dive boat	1:25	
19. Compressor	1:25	
20. Oxygen resuscitator	1:5	
21. Boat ladder	1:25	
22. Glove	1:1	
23. Buddy call tools	1:1	
24. Scuba dive excursion report	1:1	

1.	Drew Richardson, Ed.D., PADI (2010), Dive Master Manual, ISBN: 978-1-878663-07-8
2.	Dennis K Graver, Scuba Diving,ISBN-10:0-7360-1727
3.	John Bantin, Publication Aigust 17 (2007), The Scuba Diving Handbook ISBN-10-1554072808
4.	Tim Rock, (1999), Diving & Snorkling Guide, ISBN: 0864427441
5.	Paul Lees, Mc Grew Hill (1997) Diving & Snorkling Guide To Thailand, ISBN: 084428495

Sub-Sector RECREATION									
Job Area SCUBA DIVE OPERATION									
Competency Unit T	per per se post diving activities								
Learning Outcome	washed and cl competency un Conduc Conduc	eaned acco nit, trainees ct scuba divi ct surface in	tent in this CU sha rdingly / properly a will be able to: - ing equipment disa terval activities activities to superi	as well as th assembly				afely; equipment is completion of this	
Competency Unit ID		HT-400-3:20	013-C05	Level	3	Training Duration	120 Hours	Credit Hours	12
Work Activities	Related k	Cnowledge	Rela	ated Skills		e/Safety/ onmental	Training Hours	Delivery Mode	Assessment Criteria
1. Conduct scuba diving equipment disassembly	handling	e equipment of equipment bly of cleaning t f monitoring	subsec ii. Coordi transfe iii. Coordi monito disasse	r equipment embly r equipment			14 34	Lecture Demonstration & Observation	<ul> <li>Boat captain of subsequent dive informed</li> <li>Equipment transfer to dive centre coordinated</li> <li>Equipment disassembly coordinated and monitored</li> <li>Equipment cleaning monitored</li> </ul>

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
			<u>Attitude:</u> i. Knowledgeable and responsible in conducting scuba diving equipment disassemble <u>Safety:</u> i. Adhere to safety and precaution procedures			
2. Conduct surface interval activities	<ul> <li>i. Communication skills</li> <li>ii. Purpose and content of debriefing</li> <li>iii. Dive logging</li> <li>iv. Diver feedback</li> <li>v. Promotion of latest diving product such as : <ul> <li>Continuing education program</li> <li>Dive travel</li> <li>Dive equipment</li> </ul> </li> </ul>			16		<ul> <li>i. PR activities conducted</li> <li>ii. Debriefing conducted</li> <li>iii. The dive logged</li> <li>iv. Diver feedback gathered</li> <li>v. Latest diving product promoted</li> </ul>
		<ul> <li>i. Conduct PR activities</li> <li>ii. Conduct debriefing</li> <li>iii. Log the dive</li> <li>iv. Gather diver feedback</li> <li>v. Promote latest diving product</li> </ul>		38		

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
			<u>Attitude:</u> i. Hospitable and creative in conducting PR activities ii. Knowledgeable and responsible in conducting surface interval activities			
3. Report post diving activities to superior	<ul> <li>i. Post diving activities reporting format</li> <li>ii. Post diving activities reporting content</li> <li>iii. Preparation of post diving activities report</li> </ul>			5	Lecture	<ul> <li>Post diving activities reporting format determined</li> <li>Post diving activities</li> </ul>
		<ul> <li>Determine post diving activities reporting format</li> <li>Determine post diving activities reporting content</li> <li>Prepare post diving activities report</li> </ul>		13	Demonstration & Observation	reporting content determined iii. Post diving activities report prepared
			<u>Attitude:</u> i. Meticulous in writing post diving activities report ii. Adhere to report submission dateline			

Core Abilities	Social Skills
<ul> <li>01.01 Identify and gather information.</li> <li>01.02 Document information procedures or processes.</li> <li>02.01 Interpret and follow manuals, instructions and SOP.</li> <li>02.03 Communicate clearly.</li> <li>02.04 Prepare brief reports and checklist using standard forms.</li> <li>02.05 Read/Interpret flowcharts and pictorial information.</li> <li>03.02 Demonstrate integrity and apply practical practices.</li> <li>03.03 Accept responsibility for own work and work area.</li> <li>03.04 Seek and act constructively upon feedback about work performance.</li> <li>03.05 Resolve interpersonal conflicts.</li> <li>06.01 Understand systems.</li> <li>06.02 Comply with and follow chain of command.</li> <li>06.03 Identify and highlight problems.</li> <li>06.04 Adapt competencies to new situations/systems.</li> <li>01.04 Analyse information.</li> <li>03.08 Develop and maintain cooperation within work group.</li> <li>04.01 Organise own work activities.</li> <li>04.02 Set and revise own objectives and goals.</li> <li>04.03 Organise and maintain own workplace.</li> <li>04.04 Apply problem solving strategies.</li> <li>04.05 Demonstrate initiative and flexibility.</li> <li>01.10 Apply a variety of mathematical techniques.</li> <li>01.11 Apply thinking skills and creativity.</li> <li>02.11 Convey information and ideas to people.</li> <li>03.09 Manage and improve performance of individuals.</li> <li>03.19 Develop and maintain team harmony and resolve conflicts.</li> <li>03.11 Apply thinking skills and creativity.</li> <li>03.13 Develop and maintain team harmony and resolve conflicts.</li> <li>03.14 Facilitate and coordinate teams and ideas.</li> <li>03.15 Liaise to achieve identified outcomes.</li> <li>04.06 Allocate work.</li> <li>04.07 Negotiate acceptance and support for objectives and strategies.</li> <li>05.01 Implement project/work plans.</li> <li>05.02 Inspect and monitor work done and/or in progress.</li> </ul>	<ol> <li>Communication skills</li> <li>Conceptual skills</li> <li>Interpersonal skills</li> <li>Multitasking and prioritising</li> <li>Self-discipline</li> <li>Teamwork</li> <li>Learning skills</li> <li>Leadership skills</li> </ol>

Tools, Equipment and Materials (TEM)
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ITEMS	RATIO (TEM : Trainees)	
1. Buoyancy Control Device (BCD)	1:1	
2. Regulator set	1:1	
3. Scuba tank	1:1	
4. Mask	1:1	
5. Fin	1:1	
6. Wet suit	1:1	
7. Snorkel	1:1	
8. Dive computer	1:1	
9. Compass	1:1	
10. Surface marker	1:1	
11. Weight system	1:1	
12. Whistle	1:1	
13. Touch light	1:1	
14. Mapping tool	1:1	
15. Teaching slate	1:1	
16. Dive knife	1:1	
17. Fresh water	1:1	
18. Stationery	1:1	
19. Diving schedule	1:1	
20. Diver log book	1:1	
21. Diver feedback form	1:1	
22. Post diving activities report	1:1	
<b>.</b> .		

1. 2. 3. 4. 5.

F	REFERENCES
	Drew Richardson, Ed.D., PADI (2010), Dive Master Manual, ISBN: 978-1-878663-07-8
)	Dennis K Graver, Scuba Diving,ISBN-10:0-7360-1727
8.	John Bantin, Publication Aigust 17 (2007), The Scuba Diving Handbook ISBN-10-1554072808
ŀ.	Tim Rock, (1999), Diving & Snorkling Guide, ISBN: 0864427441
5.	Paul Lees, Mc Grew Hill (1997) Diving & Snorkling Guide To Thailand, ISBN: 084428495

Sub-Sector									
Job Area SCUBA DIVE OPERATION									
Competency Unit Title DIVING ACTIVITY SUPPORT									
Learning Outcome	experience div Identify Guide s Guide s Assist i	e master. U diving activ snorkelling a skin diving nstructor du	ent in this CU sha pon completion of ity support require activity ring training ity support activitie	this compe ement	etency unit, tr			ictices and	
Competency Unit ID		HT-400-3:20	013-C06	Level	3	Training Duration	240 Hours	Credit Hours	24
Work Activities	Related k	Knowledge	Rela	ated Skills		e/Safety/ onmental	Training Hours	Delivery Mode	Assessment Criteria
<ol> <li>Identify diving activity support requirement</li> </ol>	perimeter	ivity support v bodies	activity perime ii. Determ activity regulat guidelin iii. Determ	nine diving support ory bodies			5	Lecture Demonstration & Observation	<ul> <li>Diving activity support perimeter determined</li> <li>Diving activity support regulatory bodies guidelines determined</li> <li>Diving activity support location determined</li> </ul>

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
			<u>Attitude:</u> i. Knowledgeable in identifying diving activity support requirement			
2. Guide snorkelling activities	<ul> <li>i. Snorkelling area such as: <ul> <li>Marine park</li> <li>Shore area</li> <li>Reef</li> </ul> </li> <li>ii. Sea condition such as: <ul> <li>Wave</li> <li>Current</li> <li>Visibility</li> <li>Hazard</li> </ul> </li> <li>iii. Types and function of snorkelling equipment such as: <ul> <li>Fin</li> <li>Mask</li> <li>Life jacket</li> <li>Snorkel</li> <li>Buoy</li> </ul> </li> <li>iv. Snorkelling technique v. Purpose of monitoring snorkelling activity</li> </ul>			14	Lecture	<ul> <li>i. Snorkelling area determined</li> <li>ii. Snorkelling equipment determined</li> <li>iii. Snorkelling equipment explained and demonstrated</li> <li>iv. Snorkelling technique demonstrated</li> <li>v. Snorkelling activity monitored</li> </ul>
		<ul> <li>i. Determine snorkelling area</li> <li>ii. Determine snorkelling equipment</li> <li>iii. Explain and demonstrate</li> </ul>		30	Demonstration & Observation	

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
		snorkelling equipment iv. Demonstrate snorkelling technique v. Monitor snorkelling activity	Attitude:i. Carefully to protect fragile aquatic ecosystemii. Knowledgeable and creative in guiding snorkelling activitySafety:i. Adhere to safety and precaution proceduresii. Caution about avoiding things that can scrape, puncture, sting or bite			
			Environmental: i. Minimise disturbing or damaging the environment ii. Don't handle, feed or ride on aquatic organism			

Work Activities	Related Knowledge	Related Skills		Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
			iii. iv.	Respect underwater life and underwater cultural heritage Aware of local protected species			
3. Guide skin diving	<ul> <li>i. Skin diving area such as:</li> <li>Deep water</li> <li>Sandy bottom</li> <li>Reef</li> <li>ii. Types and function of skin diving equipment such as:</li> <li>Fin</li> <li>Mask</li> <li>Snorkel</li> <li>Buoy</li> <li>Weight system</li> <li>Wet suit</li> <li>iii. Breathing technique</li> <li>iv. Skin diving technique</li> <li>v. Purpose of monitoring skin diving activity</li> </ul>				20	Lecture	<ul> <li>i. Skin diving area determined</li> <li>ii. Skin diving equipment determined</li> <li>iii. Skin diving equipment explained and demonstrated</li> <li>iv. Breathing technique explained and demonstrated</li> <li>v. Skin diving technique demonstrated</li> <li>v. Skin diving technique demonstrated</li> </ul>
		<ul> <li>i. Determine skin diving area</li> <li>ii. Determine skin diving equipment</li> <li>iii. Explain and demonstrate skin diving equipment</li> <li>iv. Explain and demonstrate breathing</li> </ul>			48	Demonstration & Observation	monitored

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
		technique v. Demonstrate skin diving technique vi. Monitor skin diving activity	Attitude:i. Dive carefully to protect fragile aquatic ecosystemii. Knowledgeable and creative in guiding skin diving activitiesSafety:i. Adhere to safety and precaution proceduresii. Caution about avoiding things that can scrape, puncture, sting or bite			
			Environmental: i. Minimise disturbing or damaging the environment ii. Don't handle, feed or ride on			
			aquatic organism iii. Respect underwater life			

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
			and underwater cultural heritage iv. Aware of local protected species			
4. Assist instructor during training	<ul> <li>i. Types of training equipment such as:</li> <li>Training manual</li> <li>Audio video aid (AVA)</li> <li>Buoyancy Control Device (BCD)</li> <li>Regulator set</li> <li>Scuba tank</li> <li>Mask</li> <li>Fin</li> <li>Wet suit</li> <li>Snorkel</li> <li>Dive computer</li> <li>Compass</li> <li>Surface marker</li> <li>Weight system</li> <li>Whistle</li> <li>Touch light</li> <li>Mapping tool</li> <li>Teaching slate</li> <li>Dive knife</li> <li>Glove</li> <li>Buddy call tools</li> <li>Student divers flow</li> <li>Supervising of student divers not receiving immediate instructor attention</li> </ul>			28		<ul> <li>i. Training equipment organised</li> <li>ii. Student divers flow coordinated</li> <li>iii. Student divers not receiving immediate instructor attention supervised</li> <li>iv. Buddy teams entering/leavin g the water accounted</li> <li>v. Student divers with leaning difficulty assisted</li> <li>vi. Diver problems responded/ prevented</li> <li>vii. Skill for student divers demonstrated</li> <li>viii. Environmental assessment conducted</li> </ul>

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	<ul> <li>iv. Definition of indirect supervision</li> <li>v. Functions of buddy during entering/leaving the water</li> <li>vi. Assisting of student divers with leaning difficulty</li> <li>vii. Common problem during training such as: <ul> <li>Panic</li> <li>Low confident level</li> <li>Anxiety</li> <li>Equipment discomfort</li> <li>Cramp</li> <li>Confuse</li> <li>viii. Technique of responding to student diver problem</li> <li>ix. Demonstration of skill for student divers</li> <li>x. Environmental assessment</li> <li>xi. Student divers underwater tour guiding</li> <li>xii. Purpose of conducting pre dive briefing</li> </ul> </li> </ul>					<ul> <li>ix. Student divers underwater tour guided</li> <li>x. Appropriate pre dive briefing conducted</li> <li>xi. Continuing education student divers escorted</li> </ul>
		<ul> <li>i. Organise training equipment</li> <li>ii. Coordinate student divers flow</li> <li>iii. Supervise student divers not receiving</li> </ul>		64		

Work Activities Related Knowle	edge Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	<ul> <li>immediate instructor attention</li> <li>iv. Account buddy teams entering/leaving the water</li> <li>v. Assist student divers with leaning difficulty</li> <li>vi. Respond /prevent diver problems</li> <li>vii. Demonstrate skill for student divers</li> <li>viii. Conduct environmental assessment</li> <li>ix. Guide student divers underwater tour</li> <li>x. Conduct appropriate pre dive briefing</li> <li>xi. Escort continuing education student divers</li> </ul>	Attitude: i. Knowledgeable and responsible in assisting instructor for training <u>Safety:</u> i. Adhere to safety and precaution procedures			

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
5. Report diving activity support to superior	<ul> <li>i. Diving activity support reporting format</li> <li>ii. Diving activity support reporting content</li> <li>iii. Preparation diving activity support report</li> </ul>	<ul> <li>Determine diving activity support reporting format</li> <li>Determine diving</li> </ul>		13	Lecture Demonstration & Observation	i. Diving activity support reporting format determined ii. Diving activity support reporting content determined iii. Diving activity
		activity support reporting content iii. Prepare diving activity support report	<u>Attitude:</u> i. Meticulous in writing diving activity support report ii. Adhere to report submission dateline			support report prepared

Core Abilities	Social Skills
<ul> <li>01.01 Identify and gather information.</li> <li>01.02 Document information procedures or processes.</li> <li>02.01 Interpret and follow manuals, instructions and SOP.</li> <li>02.03 Communicate clearly.</li> <li>02.04 Prepare brief reports and checklist using standard forms.</li> <li>02.05 Read/Interpret flowcharts and pictorial information.</li> <li>03.02 Demonstrate integrity and apply practical practices.</li> <li>03.03 Accept responsibility for own work and work area.</li> <li>03.04 Seek and act constructively upon feedback about work performance.</li> <li>03.06 Respond appropriately to people and situations.</li> <li>03.07 Resolve interpersonal conflicts.</li> <li>06.01 Understand systems.</li> <li>06.02 Comply with and follow chain of command.</li> <li>06.03 Identify and highlight problems.</li> <li>06.04 Adapt competencies to new situations/systems.</li> <li>01.04 Analyse information.</li> <li>03.08 Develop and maintain cooperation within work group.</li> <li>04.01 Organise own work activities.</li> <li>04.02 Set and revise own objectives and goals.</li> <li>04.03 Organise and maintain own workplace.</li> <li>04.04 Apply problem solving strategies.</li> <li>04.05 Demonstrate initiative and flexibility.</li> <li>01.10 Apply a variety of mathematical techniques.</li> <li>01.11 Apply thinking skills and creativity.</li> <li>02.11 Convey information and ideas to people.</li> <li>03.09 Manage and improve performance of individuals.</li> <li>03.19 Develop and maintain team harmony and resolve conflicts.</li> <li>03.11 Apply thinking skills and creativity.</li> <li>03.13 Develop and maintain team harmony and resolve conflicts.</li> <li>03.14 Facilitate and coordinate teams and ideas.</li> <li>03.15 Liaise to achieve identified outcomes.</li> <li>04.06 Allocate work.</li> <li>04.07 Negotiate acceptance and support for objectives and strategies.</li> <li>05.01 Implement project/work plans.</li> <li>05.02 Inspect and monitor work done and/or in progress.</li> </ul>	<ol> <li>Communication skills</li> <li>Conceptual skills</li> <li>Interpersonal skills</li> <li>Multitasking and prioritising</li> <li>Self-discipline</li> <li>Teamwork</li> <li>Learning skills</li> <li>Leadership skills</li> </ol>

## Tools, Equipment and Materials (TEM)

MS	RATIO (TEM : Trainees)
Stationery Training manual Audio video aid (AVA) Buoyancy Control Device (BCD) Regulator set Scuba tank Mask Fin Wet suit Snorkel Life jacket Dive computer Compass Surface marker Weight system Whistle Torch light Mapping tool Teaching slate Dive knife Glove Buddy call tools Diving activity support report	As required 1:1 1:25 1:1 1:1 1:1 1:1 1:1 1:1 1:1 1:

#### REFERENCES

- 1. Drew Richardson, Ed.D., PADI (2010), Dive Master Manual, ISBN: 978-1-878663-07-8
- 2. Dennis K Graver, Scuba Diving, ISBN-10:0-7360-1727
- 3. John Bantin, Publication Aigust 17 (2007), The Scuba Diving Handbook ISBN-10-1554072808
- 4. Tim Rock, (1999), Diving & Snorkling Guide, ISBN: 0864427441
- 5. Paul Lees, Mc Grew Hill (1997) Diving & Snorkling Guide To Thailand, ISBN: 084428495

Sub-Sector		RECREATION							
Job Area		SCUBA DIVE OPERATION							
Competency Unit T	ïtle	EMERGENCY	FIRST RES	SPONSE INSTRU	CTOR (EF	RI) TRAINING	G		
Learning Outcome		<ul> <li>The person who is competent in this CU shall be able to ensure the criteria in responding to an emergency a out in proper and safe manner. Upon completion of this competency unit, trainees will be able to: -</li> <li>Identify EFRI training requirement</li> <li>Conduct EFRI training</li> <li>Report EFRI training activities to superior</li> </ul>						ergency are carried	
Competency Unit II	כ	HT-400-3:20	)13-E01	Level	3	Training Duration	96 Hours	Credit Hours	10
Work Activities	Related K	Knowledge	Rela	ated Skills		de/Safety/ onmental	Training Hours	Delivery Mode	Assessment Criteria
1. Identify EFRI training requirement	work ii. EFR stand guidelines iii. EFR regu guidelines	latory bodies care which are: ry idary it profile naterials and					6	Lecture	<ul> <li>i. EFRI training scope of work determined</li> <li>ii. EFR standard determined</li> <li>iii. EFR regulatory bodies guidelines determined</li> <li>iv. Primary and secondary types of care with determined</li> <li>v. Participant profile gathered</li> <li>vi. Training materials and</li> </ul>

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
		<ul> <li>i. Determine EFRI training scope of work</li> <li>ii. Determine EFR standard</li> <li>iii. Determine EFR regulatory bodies guidelines</li> <li>iv. Determine types of care with are primary and secondary</li> <li>v. Gather participant profile</li> <li>vi. Organise training materials and tools</li> <li>vii. Prepare EFRI training schedule</li> </ul>	<u>Attitude:</u> i. Knowledgeable in identifying EFRI training requirement	13	Demonstration & Observation	tools organised vii. EFR training schedule prepared
2. Conduct EFRI training	<ul> <li>i. EFRI material and their usage such as:</li> <li>EFR manual</li> <li>First aid kits</li> <li>Mannequin</li> <li>Oxygen resuscitator</li> <li>Glove</li> <li>Pocket mask</li> <li>Automated external defibrillator</li> <li>Floor mat</li> <li>EFR video</li> <li>iii. EFR knowledge review</li> </ul>			17	Lecture	<ul> <li>i. EFRI material usage identified</li> <li>ii. EFR video previewed</li> <li>iii. EFR knowledge review conducted</li> <li>iv. EFR skill practices demonstrated</li> <li>v. Student EFR</li> </ul>

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	<ul> <li>i. Demonstration of EFR skill practices</li> <li>iv. Evaluation of student EFR skill practices</li> <li>v. Types of emergency scenario such as: <ul> <li>Accident</li> <li>Chocking</li> <li>Bleeding</li> <li>Spinal injuries</li> <li>Cardiopulmonary Resuscitation (CPR)</li> </ul> </li> <li>vi. Purpose of observing participant EFR practice</li> <li>vii. Participant final exam</li> <li>viii. Checking of participant final exam</li> <li>ix. Reviewing missed question from final exam</li> <li>x. Filing of participant record</li> </ul>					skill practices evaluated vi. Emergency scenario practices observed and evaluated vii. Participant final exam administered viii. Participant final exam checked ix. Missed question from final exam reviewed x. Participant record filed
		<ul> <li>i. Identify EFRI material usage</li> <li>ii. Preview EFR video</li> <li>iii. Conduct EFR knowledge review</li> <li>iv. Demonstrate EFR skill practices</li> <li>v. Evaluate student EFR skill practices</li> <li>vi. Observe and evaluate emergency scenario practices</li> <li>vii. Administer participant</li> </ul>		40	Demonstration & Observation	

Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	final exam viii. Check participant final exam ix. Review missed question from final exam x. File participant record	<u>Attitude:</u> i. Knowledgeable and responsible in performing EFRI training			
<ul> <li>i. EFRI raining activities reporting format</li> <li>ii. EFRI training activities reporting content</li> <li>iii. Preparation of EFRI training activities report</li> </ul>			6	Lecture	<ul> <li>EFRI training activities reporting format determined</li> <li>EFRI training activities</li> </ul>
	<ul> <li>i. Determine EFRI training activities reporting format</li> <li>ii. Determine EFRI training activities reporting content</li> <li>iii. Prepare EFRI training activities report</li> </ul>	<u>Attitude:</u> i. Meticulous in writing EFRI training report ii. Adhere to report	13	Demonstration & Observation	reporting content determined iii. EFRI training activities report prepared
	<ul> <li>i. EFRI raining activities reporting format</li> <li>ii. EFRI training activities reporting content</li> <li>iii. Preparation of EFRI</li> </ul>	final examviii. Check participant final examix. Review missed question from final examix. Review missed question from final examix. File participant recordi. EFRI raining activities reporting format ii. EFRI training activities reporting content iii. Preparation of EFRI training activities reporting format iii. Determine EFRI training activities reporting format iii. Determine EFRI training activities reporting format iii. Determine EFRI training activities reporting format iii. Determine EFRI training activities reporting content iii. Prepare EFRI training	Related KnowledgeRelated SkillsEnvironmentalfinal exam viii. Check participant final exam ix. Review missed question from final exam x. File participant recordAttitude: i. Knowledgeable and responsible in performing EFRI trainingi. EFRI raining activities reporting format iii. EFRI training activities reporting content iii. Preparation of EFRI training activities reporting format iii. Determine EFRI training activities reporting content 	Heiated KnowledgeHeiated SkillsEnvironmentalHoursfinal exam viii. Check participant final exam ix. Review missed question from final exam x. File participant recordAttitude: i. Knowledgeable and responsible in performing EFRI trainingAttitude: i. Knowledgeable and responsible in performing EFRI trainingi. EFRI raining activities reporting content iii. Preparation of EFRI training activities reporting format iii. Determine EFRI training activities reporting content iii. Determine EFRI training activities reporting content iii. Prepare EFRI training activities report13i. Determine EFRI training activities reporting content iii. Prepare EFRI training activities reportAttitude: i. Meticulous in writing EFRI training report i. Adhere to report submission	Related KnowledgeHeated SkinsEnvironmentalHoursModefinal exam wiii. Check participant final exam ix. Review missed question from final exam x. File participant recordImage: Check participant final exam x. File participant recordImage: Check participant final exam x. File participant recordImage: Check participant final exam Attitude: i. Knowledgeable and responsible in performing EFRI training activities reporting content ii. Preparation of EFRI training activities report6Lecturei. EFRI raining activities reporting content ii. Prepare EFRI training activities report reporting content ii. Determine EFRI training activities report ii. Determine EFRI training activities report iii. Prepare EFRI training activities report iii. Prepare EFRI training activities report iii. Adhere to report iii. Adhere to report submission13Demonstration & Observation

Core Abilities	Social Skills
<ul> <li>01.01 Identify and gather information.</li> <li>01.02 Document information procedures or processes.</li> <li>02.01 Interpret and follow manuals, instructions and SOP.</li> <li>02.03 Communicate clearly.</li> <li>02.04 Prepare brief reports and checklist using standard forms.</li> <li>02.05 Read/Interpret flowcharts and pictorial information.</li> <li>03.02 Demonstrate integrity and apply practical practices.</li> <li>03.03 Accept responsibility for own work and work area.</li> <li>03.04 Seek and act constructively upon feedback about work performance.</li> <li>03.06 Respond appropriately to people and situations.</li> <li>03.07 Resolve interpersonal conflicts.</li> <li>06.01 Understand systems.</li> <li>06.02 Comply with and follow chain of command.</li> <li>06.03 Identify and highlight problems.</li> <li>06.04 Adapt competencies to new situations/systems.</li> <li>01.04 Analyse information.</li> <li>03.08 Develop and maintain cooperation within work group.</li> <li>04.01 Organise own work activities.</li> <li>04.02 Set and revise own objectives and goals.</li> <li>04.03 Organise and maintain own workplace.</li> <li>04.04 Apply problem solving strategies.</li> <li>04.05 Demonstrate initiative and flexibility.</li> <li>01.10 Apply a variety of mathematical techniques.</li> <li>01.11 Apply thinking skills and creativity.</li> <li>02.11 Convey information and ideas to people.</li> <li>03.09 Manage and improve performance of individuals.</li> <li>03.19 Develop and maintain team harmony and resolve conflicts.</li> <li>03.11 Apply thinking skills and creativity.</li> <li>03.13 Develop and maintain team harmony and resolve conflicts.</li> <li>03.14 Facilitate and coordinate teams and ideas.</li> <li>03.15 Liaise to achieve identified outcomes.</li> <li>04.06 Allocate work.</li> <li>04.07 Negotiate acceptance and support for objectives and strategies.</li> <li>05.01 Implement project/work plans.</li> <li>05.02 Inspect and monitor work done and/or in progress.</li> </ul>	<ol> <li>Communication skills</li> <li>Conceptual skills</li> <li>Interpersonal skills</li> <li>Multitasking and prioritising</li> <li>Self-discipline</li> <li>Teamwork</li> <li>Learning skills</li> <li>Leadership skills</li> </ol>

ITEMS	RATIO (TEM : Trainees)	
<ol> <li>Stationery</li> <li>AVA</li> <li>EFR manual</li> <li>First aid kits</li> <li>Mannequin</li> <li>Oxygen resuscitator</li> <li>Glove</li> <li>Pocket mask</li> <li>Automated external defibrillator</li> <li>Floor mat</li> <li>EFRI training activities report</li> </ol>	As required 1:25 1:1 1:5 1:5 1:5 1:1 1:1 1:5 1:5	

#### REFERENCES

- 1. Drew Richardson, Ed.D., PADI (2010), Dive Master Manual, ISBN: 978-1-878663-07-8
- 2. Dennis K Graver, Scuba Diving, ISBN-10:0-7360-1727
- 3. John Bantin, Publication Aigust 17 (2007), The Scuba Diving Handbook ISBN-10-1554072808
- 4. Tim Rock, (1999), Diving & Snorkling Guide, ISBN: 0864427441
- 5. Paul Lees, Mc Grew Hill (1997) Diving & Snorkling Guide To Thailand, ISBN: 084428495

Sub-Sector		RECREATION							
Job Area		SCUBA DIVE OPERATION							
Competency Unit Ti	itle	DISCOVER SO	CUBA DIVIN	IG (DSD) LEADE	RSHIP				
Learning Outcome		<ul> <li>The person who is competent in this CU shall be able to ensure all participants have under water experience be sign up for diving course. Upon completion of this competency unit, trainees will be able to: -</li> <li>Identify discover scuba diving leadership requirement</li> <li>Collate DSD standard forms</li> <li>Conduct DSD briefing</li> <li>Carry out equipment setup</li> <li>Conduct DSD activities</li> <li>Report DSD leadership activities to superior</li> </ul>				experience before			
Competency Unit ID	)	HT-400-3:2	013-E02	Level	3	Training Duration	240 Hours	Credit Hours	24
Work Activities	Related k	Knowledge	Rela	ted Skills		ıde/Safety/ ronmental	Training Hours	Delivery Mode	Assessment Criteria
1. Identify DSD leadership requirement	i. DSD Stan procedure ii. DSD lead perimeter iii. DSD Parti	ership					6	Lecture	<ul> <li>DSD Standard and procedure determined</li> <li>DSD leadership perimeter</li> </ul>
			Standa proced ii. Determ leaders determ	ure nine DSD ship perimeter			13	Demonstration & Observation	determined iii. Participant profile gathered

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
			<u>Attitude:</u> i. Knowledgeable in identifying DSD leadership requirement			
2. Collate DSD standard forms	<ul> <li>i. DSD standard forms such as <ul> <li>Liability release form</li> <li>Safe diving practice</li> <li>Medical statement form</li> <li>Supporting documents</li> </ul> </li> <li>ii. Purpose of checking DSD standard forms completeness</li> <li>iii. Filing of DSD standard forms</li> </ul>			7	Lecture	<ul> <li>i. Types of DSD standard forms identified</li> <li>ii. Completeness of DSD standard forms checked</li> <li>iii. DSD standard forms filed</li> </ul>
		<ul> <li>i. Identify types of DSD standard forms</li> <li>ii. Checked completeness of DSD standard forms</li> <li>iii. File DSD standard forms</li> </ul>	<u>Attitude:</u> i. Meticulous and responsible in collating DSD standard forms	17	Demonstration & Observation	

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
3. Conduct DSD briefing	<ul> <li>i. Greeting protocol</li> <li>ii. participant and DSD leader roles</li> <li>iii. DSD briefing guideline</li> <li>iv. Equipment usage and function</li> <li>v. Underwater environmental awareness</li> <li>vi. DSD technique</li> </ul>			18	Lecture	<ul> <li>i. Greeting protocol applied</li> <li>ii. Participant and DSD leader roles explained</li> <li>iii. DSD briefing guideline reviewed</li> <li>iv. Equipment usage and</li> </ul>
		<ul> <li>i. Apply greeting protocol</li> <li>ii. Explain participant and DSD leader roles</li> <li>iii. Review DSD briefing guideline</li> <li>iv. Explain equipment usage and function</li> <li>v. Explain underwater environmental awareness</li> <li>vi. Explain DSD technique</li> </ul>	<u>Attitude:</u> i. Responsible in conducting DSD briefing <u>Safety</u> : i. Adhere to safety and precaution procedure	46	Demonstration & Observation	function explained v. Underwater environmental awareness explained vi. DSD technique explained

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
4. Carry out equipment setup	<ul> <li>Assembly of equipment for participant</li> <li>Purpose of checking scuba diving equipment</li> </ul>			14	Lecture	<ul> <li>Equipment for participant assembled</li> <li>Scuba diving equipment</li> </ul>
		<ul> <li>Assembly equipment for participant</li> <li>Check scuba diving equipment</li> </ul>	Attitude: i. Responsible in carrying out equipment setup <u>Safety</u> : i. Adhere to safety and precaution procedure	36	Demonstration & Observation	checked

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
5. Conduct DSD activities	<ul> <li>i. Dive site condition which are: <ul> <li>Pool</li> <li>Confined water</li> </ul> </li> <li>ii. Demonstration of diving equipment and skills performance which are: <ul> <li>Breathing underwater</li> <li>Regulator clearing</li> <li>Regulator recovery</li> <li>Mask clearing</li> <li>Equalisation technique</li> <li>Inflate and deflate a BCD at the surface</li> </ul> </li> <li>iii. DSD leader underwater positioning</li> <li>iv. DSD problem solving</li> <li>Monitoring of participant comfort and air consumption</li> </ul>	<ul> <li>i. Determine dive site condition</li> <li>ii. Demonstrate equipment usage at surface in shallow water</li> <li>iii. Demonstrate basic diving skills as per DSD requirement</li> <li>iv. Supervise participant skill practice</li> </ul>		19	Lecture Demonstration & Observation	<ul> <li>i. Dive site condition determined</li> <li>ii. Equipment usage at surface in shallow water demonstrated</li> <li>iii. Basic diving skills as per DSD requirement demonstrated</li> <li>iv. Participant skill practice supervised</li> <li>v. Close position for problem solving maintained</li> <li>vi. Participant problems handled effectively</li> <li>vii. Confined water activities organised and controlled</li> </ul>

Work Activities Related	l Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	vi.		<ul> <li><u>Attitude:</u> <ol> <li>Dive carefully to protect fragile aquatic ecosystem</li> <li>Knowledgeable and responsible in conducting discover scuba diving activities</li> <li>Provide a positive, fun experience for participant</li> </ol> </li> <li><u>Safety:</u> <ol> <li>Adhere to safety and precaution procedures</li> <li>Caution about avoiding things that can scrape, puncture, sting or bite</li> </ol> </li> </ul>			

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
6. Report DSD	i. DSD leadership		<ul> <li><u>Environmental:</u> <ol> <li>Minimise disturbing or damaging the environment</li> <li>Don't handle, feed or ride on aquatic organism</li> <li>Respect underwater life and underwater cultural heritage</li> <li>Aware of local protected species</li> </ol> </li> </ul>	6	Lecture	i. DSD
leadership activities to superior	<ul> <li>ii. DSD leadership reporting format</li> <li>iii. DSD leadership reporting content</li> <li>iii. Preparation of DSD leadership activities report</li> </ul>			Ŭ		i bob leadership activities reporting format determined ii. DSD leadership
		<ul> <li>Determine DSD leadership activities reporting format</li> <li>Determine DSD leadership activities reporting content</li> <li>Prepare DSD leadership activities report</li> </ul>		13	Demonstration & Observation	activities reporting content determined iii. DSD leadership activities report prepared

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
Work Activities	Related Knowledge	Related Skills	Environmental <u>Attitude:</u> i. Meticulous in writing DSD leadership activities report ii. Adhere to report submission dateline	Hours	Mode	Criteria

Core Abilities	Social Skills
<ul> <li>01.01 Identify and gather information.</li> <li>01.02 Document information procedures or processes.</li> <li>02.01 Interpret and follow manuals, instructions and SOP.</li> <li>02.03 Communicate clearly.</li> <li>02.04 Prepare brief reports and checklist using standard forms.</li> <li>02.05 Read/Interpret flowcharts and pictorial information.</li> <li>03.02 Demonstrate integrity and apply practical practices.</li> <li>03.03 Accept responsibility for own work and work area.</li> <li>03.04 Seek and act constructively upon feedback about work performance.</li> <li>03.06 Respond appropriately to people and situations.</li> <li>03.07 Resolve interpersonal conflicts.</li> <li>06.01 Understand systems.</li> <li>06.02 Comply with and follow chain of command.</li> <li>06.03 Identify and highlight problems.</li> <li>06.04 Adapt competencies to new situations/systems.</li> <li>01.04 Analyse information.</li> <li>03.08 Develop and maintain cooperation within work group.</li> <li>04.01 Organise own work activities.</li> <li>04.02 Set and revise own objectives and goals.</li> <li>04.03 Organise and maintain own workplace.</li> <li>04.04 Apply problem solving strategies.</li> <li>04.05 Demonstrate initiative and flexibility.</li> <li>01.10 Apply a variety of mathematical techniques.</li> <li>01.11 Apply thinking skills and creativity.</li> <li>02.11 Convey information and ideas to people.</li> <li>03.09 Manage and improve performance of individuals.</li> <li>03.13 Develop and maintain team harmony and resolve conflicts.</li> <li>03.14 Facilitate and coordinate teams and ideas.</li> <li>03.15 Liaise to achieve identified outcomes.</li> <li>04.06 Allocate work.</li> <li>04.07 Negotiate acceptance and support for objectives and strategies.</li> <li>05.01 Implement project/work plans.</li> <li>05.02 Inspect and monitor work done and/or in progress.</li> </ul>	<ol> <li>Communication skills</li> <li>Conceptual skills</li> <li>Interpersonal skills</li> <li>Multitasking and prioritising</li> <li>Self-discipline</li> <li>Teamwork</li> <li>Learning skills</li> <li>Leadership skills</li> </ol>

### Tools, Equipment and Materials (TEM)

ITEMS	RATIO (TEM : Trainees)
1. Stationery	1:1
2. Buoyancy Control Device (BCD)	1:1
3. Regulator set	1:1
4. Scuba tank	1:1
5. Mask	1:5
6. Fin	1:1
7. Wet suit	1:1
8. Snorkel	1:1
9. Dive computer	1:5
10. Compass	1:5
11. Surface marker	1:1
12. Weight system	1:1
13. Whistle	1:1
14. Touch light	1:1
15. Mapping tool	1:1
16. Teaching slate	1:1
17. Dive knife	1:1
18. Dive boat	1:25
19. Compressor	1:25
20. Oxygen resuscitator	1:5
21. Boat ladder	1:25
22. Glove	1:1
23. Buddy call tools	1:1
24. Discover scuba diving leadership activities report	1:1

#### REFERENCES

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- 2. Dennis K Graver, Scuba Diving, ISBN-10:0-7360-1727
- 3. John Bantin, Publication Aigust 17 (2007), The Scuba Diving Handbook ISBN-10-1554072808
- 4. Tim Rock, (1999), Diving & Snorkling Guide, ISBN: 0864427441
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## Table 8: Training Hour Summary

SECTOR	: HOSPITALITY & TOURISM	
SUB SECTOR	: RECREATION	
JOB AREA	: SCUBA DIVING OPERATION	
JOB LEVEL	: THREE (3)	
CU ID	Competency Unit	Training Hour
CORE	SCUBA DIVE LOGISTIC MAINTENANCE	180
CORE	DIVER RECEPTION HANDLING	120
CORE	SCUBA DIVE SAFETY BRIEFING	240
CORE	SCUBA DIVE EXCURSION	300
CORE	POST DIVING ACTIVITIES	120
CORE	DIVING ACTIVITY SUPPORT	240
ELECTIVE	EMERGENCY FIRST RESPONSE	96
ELECTIVE	DISCOVER SCUBA DIVING LEADERSHIP	240
	Total Training Programme Hours	1200

NO. ID	COMPETENCY UNIT	WORK ACTIVITIES	RELATED KNOWLEDGE (A)	RELATED SKILLS (B)	HOURS (A) + (B)	TOTAL (HRS)
HT-400-3:2013-C01	SCUBA DIVE LOGISTIC MAINTENANCE	Identify scuba dive logistic maintenance requirement	5	13	18	- 180
		Prepare scuba dive equipment maintenance schedule	5	13	18	
		Maintain scuba dive equipment	22	50	72	
		Carry out dive centre housekeeping	5	13	18	
		Prepare boat for diving	11	25	36	
		Report scuba dive logistic maintenance to superior	5	13	18	
HT-400-3:2013-C02	DIVER RECEPTION HANDLING	Determine diver reception handling requirement	5	13	18	120
		Carry out diver registration	5	13	18	
		Prepare diving activity schedule	5	13	18	
		Collate diver safety standard forms	5	13	18	
		Carry out diver equipment fitting	9	21	30	
		Report diver reception handling activity to superior	5	13	18	
HT-400-3:2013-C03	SCUBA DIVE SAFETY BRIEFING	Identify scuba dive safety briefing requirement	5	12	17	240
		Brief diver before diving	18	22	40	
		Conduct safety briefing	26	60	86	
		Conduct emergency plan briefing	20	60	80	
		Report scuba dive safety briefing to superior	5	12	17	
HT-400-3:2013-C04	SCUBA DIVE EXCURSION	Determine scuba dive excursion requirement	5	13	18	300
		Arrange diver to boat and dive location	14	32	46	
		Arrange diver to water entry	14	32	46	
		Lead scuba dive excursion	23	50	73	
		Supervise safety stop at the end of dive	21	48	69	
		Arrange diver enter the boat	9	21	30	
		Report scuba dive excursion to superior	5	13	18	
HT-400-3:2013-C05	POST DIVING ACTIVITIES	Conduct scuba diving equipment disassemble	14	34	48	120
		Conduct surface interval activities	16	38	54	
		Report post diving activities to superior	5	13	18	
HT-400-3:2013-C06	DIVING ACTIVITY SUPPORT	Identify diving activity support requirement	5	13	18	240
		Guide snorkelling activity	14	30	44	
		Guide skin diving	20	48	68	
		Assist instructor during training	28	64	92	
		Report specialty diving activities to superior	5	13	18	
	1	TOTAL HOURS (Core Competencies)	359	841	1200	1200

HT-400-3:2013-E01	EMERGENCY FIRST RESPONSE	Identify EFRI requirement	6	13	19	96
		Perform EFRI training	18	40	58	
		Report EFRI Instructor training to superior	6	13	19	
HT-400-3:2013-E02	DISCOVER SCUBA DIVING LEADERSHIP	Identify DSD leadership requirement	6	13	19	240
		Collate DSD standard forms	7	17	24	
		Conduct DSD briefing	18	46	64	
		Carry out equipment setup	14	36	50	
		Conduct DSD activities	19	45	64	
		Report DSD leadership activities to superior	6	13	19	
TOTAL HOURS (+ Elective Competency)			459	1077	1536	1536