

# MARINE DIVING TECHNICIAN, CERTIFICATE OF ACHIEVEMENT (C)

## Overview

A certificate of achievement as a Marine Diving Technician certifies professional commercial divers for employment under ANSI/ACDE-01-1998 industry standards. The training curriculum includes instruction in all phases of commercial diving, hyperbaric medicine, bell/saturation diving emergency medicine, and remote operated vehicles (ROV's) to name but a few. Teamwork and Safety are the prime emphases of marine technician training. Students completing the certificate program receive industry certifications which are required for employment. Students completing the full certificate program have the option to seek employment in the marine industry or combine their completed coursework toward an Associate in Science degree in Marine Technology at SBCC.

Admission Requirements: The program is open to all interested students to both diving and non-diving classes.

1. Non-diving students submit an SBCC Application to Admissions Office.
2. Students enrolling in diving classes, provide proof of diving certification and submit the Department Application for Diving

## Requirements

### Certificate of Achievement Requirements

Complete all Department Requirements for the Certificate of Achievement with a cumulative grade point average (GPA) of 2.0 or better. Candidates for a Certificate of Achievement are required to complete at least 20% of the department requirements through SBCC.

Code	Title	Units
<b>Department Requirements</b>		
MDT 101	Information and Introduction to Marine Diving Technology	0.3
MDT 104	Fundamentals and Practices of Diving	2
MDT 105	Advanced Scuba Techniques	1.7
MDT 106	Open Water Navigation And Rescue	0.7
MDT 107	Hyperbaric Chamber Operations	1.5
MDT 108	Rigging	1
MDT 109	Seamanship and Small Boat Handling	1.5
MDT 111	First Aid For The Diving Professional	1.4
MDT 112	Introduction To Marine Welding	1.1
MDT 140	Principles Of Surface-Supplied Diving	1
MDT 141	Commercial Diving Equipment	1.5
MDT 142	Surface-Supplied Ocean Diving	1.8
MDT 143	Mixed Gas Diving	1.1
MDT 145	Principles Of Underwater Cutting And Welding	1
MDT 146	Advanced Underwater Cutting And Welding	1.5
MDT 147	Ocean Structures	0.5

MDT 148	Hydraulics I	0.7
MDT 152	Underwater Tools And Inspection	1.7
MDT 154	Bell And Saturation Diving Procedures	1.7
MDT 179	Nitrox Diving	0.8
MDT 190	Assessment And Development Of Diving Competence	1
<b>Total Units</b>		<b>25.50</b>

### Recommended Electives

Code	Title	Units
BIOL 124	Biological Oceanography	3-4
or BIOL 142	Marine Science	
or EARTH 151	Introductory Physical Oceanography	
BIOL 125	Marine Biology	4
CS 101	Computer Concepts	4
DRFT 101	Basic Drafting	3-5
or DRFT 130	Computer-Assisted Drafting And Design I	
or ENGR 105	Engineering Graphics	
EMT 110	Emergency Medical Technician-Basic	6
PE 134A	Swimming For Conditioning: Beginning	1.5
PHYS 101 & 101L	Conceptual Physics and Conceptual Physics Laboratory	4

## Learning Outcomes

1. Meet the qualifications of an entry-level commercial diver established by the United States Occupational Safety and Health Administration, the United States Coast Guard, the American National Standards Institute and the Association of Diving Contractors
2. Comprehend physical laws governing hyperbaric and industrial operations in a marine environment
3. Conduct hyperbaric and industrial-related activities safely and in accordance with recognized agency and industry standards
4. Apply knowledge of diving techniques and associated capabilities to determine proper operational procedures for diverse marine-related construction, inspection, maintenance, repair and decommissioning projects
5. Perform the assigned duties of an entry-level diver as an individual or member of a support team in a safe, effective and efficient manner

## Recommended Sequence

Make an appointment with your SBCC academic counselor through Starfish to create a Student Education Plan that reflects a recommended course sequence for this program that is tailored to your individual needs.

How to schedule an Academic Counseling appointment (<https://www.sbccc.edu/counselingcenter/counselingappointments.php>).