

# NAUI Intro To Tech Overview



## Objective

This document provides initial information for potential candidates of the NAUI Intro to Tech course.

## Prerequisites

All candidates must meet the following prerequisites prior to training.

## Age

Minimum is 18 years by the water phase of the course.

## Experience

- NAUI Scuba Diver or equivalent.
- NAUI EANx Diver or equivalent.
- NAUI Drysuit Diver or equivalent.
- Proof of at least 25 logged dives with 10 dives on EANx.

## Fitness to Dive

All candidates must be medically fit to dive per NAUI standards, and complete a medical waiver and Technical training waiver. A medical clearance might be required by the Instructor before in water training commences.

## Course Preparation

The following materials should be obtained and read before the first classroom session.

- NAUI Technical Diver Textbook
- NAUI Technical Equipment Configuration handout
- Equipment Checklist

# Course Structure

The NAUI Intro To Tech course will be conducted over 3 weekends. Training will only be continued if the student demonstrates sufficient academic understanding, skills and safe conduct at all times.

	Date	Time	Activity	Location
<b>Week 1</b>	Sun 1/15/2017	9:00 AM 2:00 PM	Classroom	<a href="#">Pro Scuba Dive Center</a>
		3:00 PM 6:00 PM	Gear Build and Skills	<a href="#">Pro Scuba Dive Center</a>
<b>Week 2</b>	Sat 1/21/2017	8:30 AM 9:30AM	Build Check	<a href="#">Pro Scuba Dive Center</a>
		9:30 AM 1:30 PM	Pool Training	<a href="#">San Lorenzo Valley High School</a>
		2:30 PM 6:00 PM	Video Debrief	<a href="#">Pro Scuba Dive Center</a>
	Sun 1/22/2017	9:30 AM 1:30 PM	Pool Training	<a href="#">San Lorenzo Valley High School</a>
		2:30 PM 6:00 PM	Video Debrief	<a href="#">Pro Scuba Dive Center</a>
<b>Week 3</b>	Sat 1/28/2017	7:00 AM 12:30 PM	Ocean Evaluation	<a href="#">San Carlos Beach</a>
		2:00 PM 6:00 PM	Video Debrief	<a href="#">Pro Scuba Dive Center</a>
	Sun 1/29/2017	7:00 AM 12:30 PM	Ocean Evaluation	<a href="#">San Carlos Beach</a>
		2:00 PM 6:00 PM	Video Debrief	<a href="#">Pro Scuba Dive Center</a>

[Pro Scuba Dive Center](#): 4637 Scotts Valley Dr, Scotts Valley, CA 95066

Nearest landmarks are Santa Cruz County Bank, and Mint Bar.

[San Lorenzo Valley High School Pool](#): Hwy 9, Felton, CA 95018

Nearest landmarks are Castelli's Deli-Cafe.

Pool is located at the rear, travel counter-clockwise in the parking lot on the perimeter.

[Monterey State Beach](#): Del Monte Ave and Camino El Estero, Monterey, CA 93940

Nearest landmarks are McDonalds and Monterey Bay Kayaks

[San Carlos Beach](#): Cannery Row and Reeside Ave, Monterey, CA 93940

Nearest landmarks are Backscatter Underwater Video, and US Coast Guard.

## Classroom - 9:00 AM to 6:00 PM

Bring all class materials, logbooks and dive gear to the classroom session. Your existing equipment will be inspected, and you will be taught what gear to add or modify for the NAUI Technical Equipment Configuration. You can use this opportunity to learn about equipment choices to avoid purchasing inappropriate items. After class students must complete their equipment and configure it before water training commences.

1. Lecture: NAUI Technical Equipment Configuration (NTEC)
2. Lecture: NAUI Introduction to Technical Diving
3. Exam
4. Lunch
5. Introduction to skills and land drills
6. Technical gear rigging

## Pool Training - 8:30 AM to 6:00 PM

Pool training will commence with a full build and gear inspection. Equipment must satisfy requirements to be allowed to progress to in water training. After all water training sessions we will conduct a gear breakdown and cleaning and video debrief at Pro Scuba Dive Center.

1. Gear build check at Pro Scuba Dive Center
2. Briefing and NAUI Technical Dive Planner review
3. Confined water training
4. Drive to Pro Scuba Dive Center
5. Video debrief and gear maintenance at Pro Scuba Dive Center

## Ocean Evaluation - 7:00 AM to 6:00 PM

Skills will be assessed in open water in 4 dives conducted over 2 days. All students must display competency in all the listed skills and satisfy evaluation criteria in order to be awarded certification.

1. Gear build
2. Briefing and NAUI Technical Dive Planner review
3. Open water review and evaluation
4. Drive to Pro Scuba Dive Center
5. Video debrief and gear maintenance at Pro Scuba Dive Center

# Evaluation

Students will be evaluated on a scale of 1--5 for the following skills, and must achieve at least a 3 in all categories to be certified. All categories are evaluated in open water with the exception of safety at all times.

<b>Buoyancy</b>	Steady ascent and descent rates, control while hovering, minimal motion
<b>Trim</b>	Attitude on descent, ascent, in motion, task loaded and hovering
<b>Skills</b>	Propulsion, emergency skills, competency
<b>Equipment</b>	Configuration, familiarity, appropriate selection and preparedness
<b>Team</b>	Team oriented, buddy, situational awareness, communication
<b>Safety</b>	Decision making, conservatism, knowledge of dive limits, obeying directions

# Certification Requirements

Certification will be awarded by the Instructor only after all of the following criteria are met:

1. Medical waivers and liability releases are completed.
2. Written examination has been completed and passed with minimum score of 85 %.
3. All skills evaluated in open water to satisfy all training requirements.
4. Instructor has deemed that diving conduct is safe.
5. NAUI Technical Dive Planner has been completed and signed for all open water dives.
6. Course feedback form is completed and returned to the Instructor.

# Skills

The following skills are to be completed in open water at a depth of 33 fsw (unless specified), with a maximum depth variation of +/- 2 ft and trim of +/- 20 degrees, and within specified time limits.

- Define oxygen limits based on  $PO_2$  less than or equal to 1.4 ata at maximum depth.
- Analyze nitrox and label each cylinder correctly with the MOD.
- Complete the NAUI Technical Dive Planner for each dive and review with teaching staff prior to each dive.
- Set up personal scuba systems for each dive to satisfy training, environmental, and physiological constraints in accordance with NTEC.
- Establish safety and emergency procedures, contingency strategies, abort, and bailout plans while remaining within NDLS.
- Perform pre-dive safety check (BC, cylinders, regulators, gauges, lights, and dive plan review).
- Maintain buoyancy control and proper trim.
- Hover without sculling at 20 fsw (6 msw) for 5 minutes.
- Demonstrate proper descent and ascent rate, time, and gas management.
- Turn the dive or begin the ascent at the predetermined back-gas pressure or bottom time.
- Use proper U/W communications.
- Shutdown failed regulator and isolate for catastrophic gas loss. First in confined and following adequate practice at a depth of 33 feet/10 meters.
- Gas sharing: simulate out-of-gas scenario over a distance of 30 feet/10 meters.
- Remove and replace a stage cylinder.
- Perform a helicopter drill.
- Perform a backdown (back kick).
- Share gas with a 5-foot (1.5m) to 8-foot (2.5m) hose for 20 feet/6 meters.
- Deploy a surface marker.
- Tow a simulated unconscious diver 30 feet/9 meters underwater and simulate a rescue ascent with a diver experiencing oxygen toxicity.