



Nitrox Instructor Program

- ▶ Welcome and Course Overview
- ▶ The TDI Instructor
- ▶ Dive Leader Risk Management
- ▶ Methods of Instruction
- ▶ Business Side of Diving
- ▶ Teaching the TDI Nitrox Diver Program

The TDI Nitrox Instructor Program is typically the first TDI Leadership level an instructor will complete. Any instructor from any agency may be qualified to attend the TDI Nitrox Instructor program. Since this is the first program they are completing through TDI more time will need to be spent on the core topics listed below. Once an instructor has completed their initial TDI Nitrox program, or any initial TDI Instructor program, they will need only to focus on the course specific content for future programs.

Objectives

The object of this program is to:

- Introduce the instructor to TDI
- Introduce the candidate to the TDI Instructor Guide and Student materials
- Demonstrate how to use the TDI Nitrox materials to train a new nitrox diver

- Teach the instructor “How to Conduct” the TDI Nitrox Diver program
- Demonstrate how to register and certify a new Nitrox diver

Prerequisites for TDI Nitrox Instructor Program

See the current TDI Nitrox Instructor standards for the prerequisites and requirements for this program.

Materials Required

Teaching any program with outdated materials is just asking for problems. The trainer must confirm that their materials are current and each instructor has the current materials with which to teach the program.

Instructor Trainer

- TDI Nitrox Diver Manual
- TDI Nitrox Diver Knowledge Quest
- TDI Nitrox Instructor Guide
- TDI Nitrox PowerPoint Presentation®
- TDI Instructor Trainer Manual

Instructor Candidate

- TDI Nitrox Diver Manual
- TDI Nitrox Diver Knowledge Quest
- TDI Nitrox Instructor Guide
- TDI Nitrox PowerPoint Presentation®

Note: Prior to beginning the program the instructor candidate should review all instructor and diver materials and complete all knowledge quests and



final exams so they are completely familiar with the subject matter and the support materials to teach the TDI Nitrox Diver program.

The topics to be covered are:

- Welcome and Course Orientation
- The TDI Instructor*
- Dive Leader Risk Management*
- Methods of Instruction*
- Business Side of Diving*
- Courses a TDI Instructor Can Teach Nitrox

*Core Topics: These core topics will be found in Part One of this manual; IT Information.

Welcome and Course Overview

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Paperwork

- Instructor Registration Form
- Personal Information
- Liability Release
- Medical Statement

Let's Get to Know Each Other

Professional Staff



Participants

- Your name?
- What type of technical diving experience do you have?
- Which technical diving activities interest you the most?
- Why are you interested in becoming a technical instructor?

About This Program

Course Objective

- Develop the appropriate knowledge and skills that are expected of every dive professional

Subject Areas

- The TDI Instructor
- Dive Leader Risk Management
- Methods of Instruction
- Business Side of Diving

Structure and Schedule

- Independent Study
- Classroom Presentations
- Confined Water Training
- Open Water Training

Required Equipment

- Items you'll need for this course

Any Questions?



The TDI Instructor

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Refer to Instructor Trainer Manual Part 1 Instructor Training Process
Chapter 2-The SDI/TDI/ERDI Instructor

Dive Leader Risk Management

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Refer to Instructor Trainer Manual Part 1 Instructor Training Process
Chapter 3-Dive Leader Risk Management

Methods of Instruction

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Refer to Instructor Trainer Manual Part 1 Instructor Training Process
Chapter 4-Methods of Instruction

Business Side of Diving

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Refer to Instructor Trainer Manual Part 1 Instructor Training Process
Chapter 5-Business of Diving



Teaching the TDI Nitrox Diver Program

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- Program overview
 - Classroom requirements
 - Students are required to become familiar with the use of an analyzer, use of dive tables, use of dive planning software, determining best mix / MOD / PO₂, and cylinder labeling during the Nitrox diver program. An Instructor must be able to demonstrate proper use of an analyzer and logging procedures as well as answer any questions students may have regarding the analyzer.
 - Pool / confined water requirements
 - While a pool / confined water session is not required, an instructor may take this opportunity to conduct an update with divers who have been inactive for a period of time, or conduct a skill evaluation to help the students become better divers
 - Open Water Requirements
 - Dives are not required, but the instructor may take this opportunity to have the divers analyze, verify cylinder content, log cylinder content and dive with various nitrox mixtures under the supervision of an instructor.
- Materials
 - Review all diver materials to make sure the instructor candidate is familiar with all diver materials and how they are supported by the instructor materials.
 - Diver Materials
 - Online
 - Printed



- Required paperwork
 - Discuss in detail how the instructor should complete the required paperwork
 - The instructor candidate must be familiar with all forms and be able to answer any question a diver may have regarding the completion of those forms
 - Diver Training Folder
 - Waiver
 - Medical Questionnaire
- Complete a thorough review of the appropriate TDI Instructor manual including:
 - How to conduct:
 - Academic sessions
 - Cover helpful hints on how to teach more involved subjects
 - Pool/ Confined water sessions (if one is conducted)
 - Helpful hints on:
 - How to teach skills
 - Conducting an update / skill evaluation
 - Possible problems an instructor may experience
 - How to deal with those problems
 - Open water sessions (if one is conducted)
 - Helpful hints on:
 - How to conduct skills in open water vs pool/confined
 - Possible problems an instructor may experience in open water
 - How to deal with those problems



List of tips on how to teach various aspects of this program include:

Analyzing cylinders

Reading tables

EAD

EAN

Verifying and logging cylinder content

Cylinder labeling

List of academic / pool-confined water / open water topics for candidate to present:

History of EAN

Using Dive Tables (EAD and EAN Tables)

Advantages and Disadvantages of Nitrox

Use of oxygen analyzers

Logging Nitrox mixtures

Labeling of Nitrox cylinders

Scheduling Options for this program

Overview

The TDI Nitrox Instructor program does not require dives for the instructor to be certified. Therefore, the instructor program may be taught entirely in a classroom setting.



Classroom

You will need several different cylinders of various nitrox mixtures so the instructor candidate can practice the use of the analyzers and become proficient in the use of the analyzer. Candidates are required to perform and pass an academic presentation.

Dives

If dives are not included in the instructor program, the course may be completed in one day. If dives are to be completed for the instructor program, two days is typically planned. It is possible to conduct the academic review at the open water site along with the dives. In that case one day will be adequate for the instructor program.

Knowledge Quest Review Questions if applicable

No instructor level Knowledge Quest is available for this program, although the candidate should complete the diver level Knowledge Quest so they are familiar with the information.

Final Exam

No instructor level final exam is available for this program, although the candidate should complete the diver level final exam so they are familiar with the information.



