

Tiedemann's Diving Center

Advanced Specialty Program



Tiedemann's Diving Center
56 Gardiners Ave
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www.TDCScuba.com
www.EdtheScubaGuy.com

Tiedemann's Diving Center's Advanced Speciality Program

The teaching program at Tiedemann's Diving Center is over 50 years old. Started in 1969 our program has always been committed to teaching people safe diving on Long Island. Our approach is simple - start with a good foundation and then build on that foundation. Our Open Water Diver program has helped over 10,000 people enjoy the beautiful underwater world.

For many getting certified as an Open Water Diver is the end of their diver education. For some, it is just the beginning. Once you have your Open Water Diver certification the world of underwater specialities opens up to you. With these specialities you can explore areas that interest you and have some amazing diving experiences.

Using the Scuba Schools International teaching program, Tiedemann's Diving Center offers training from Open Water Diver to Instructor. The question is how far do you want to go.

The following is a complete picture of our advanced teaching program. It contains details on the various programs we teach and a calendar of when we will be offering these programs. Also, there are details on how you become an Advanced Open Water Diver and Master Diver.

If you have any questions, contact me...

Ed Tiedemann





What really makes a person advanced at something? Is it just education? Is it just experience? Most people agree it is a combination of both. That combination is what makes the SSI Advanced Open Water Diver certification so prestigious. Unlike that other certification that only requires an open water diver to do five more dives to be certified advanced. The SSI program is built around both education and experience.

To receive Advanced Open Water Diver certification an Open Water Diver has to complete 4 Advanced Specialties and log 24 dives. Since most Advanced Specialties have two dives associated with them, and 4 dives are required for Open Water Diver certification, the divers has 12 logged dives after they complete their education. As the diver goes on dives they log their dives until they meet the required 24 dives. The great thing about the program is that you can do it in any order. Go on a dive trip and log some dives. Take a specialty course and get certified in that area. Once you complete your Open Water Diver certification, you start working on your Advanced Open Water Diver certification by just going on a dive and logging it. A very flexible system...

(over)

As you work your way towards Advanced certification, you receive recognition and the midpoint with Specialty Diver certification. This certification is awarded when you complete 2 specialties and log 12 dives.



Want to go all the way in Recreational Diving? The highest level of, non leadership. certification is Master Diver. This is reached when a diver completes 50 logged dives, 4 Advanced Specialties and Rescue Diver. This is a certification that you can truly be proud of.



The question is - How far do you want to go?

Tiedemann's Diving Center's Dutch Springs Weekends

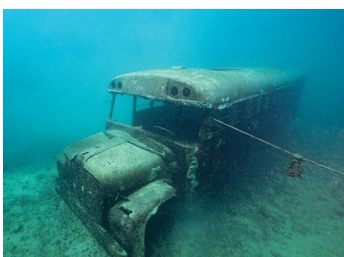
Everyone at Tiedemann's Diving Center loves diving on Long Island. We do both beach and boat diving throughout the dive season. Diving on the Island can be tricky. Wind and surf can mess up visibility and make getting out on the boat difficult. This is why we use Dutch Springs for much of our Advanced Specialty program. Only about 120 miles from Long Island and it is a great place to work on our diving skills and have a fun weekend.

Each year, Tiedemann's Diving Center plans 6 Dutch Springs weekends. Starting in May and going till October, these are opportunities for divers to join us for fun and/or some great diver education. During our Dutch Springs weekend we have our wonderful staff of instructors available for a wide variety of Advanced Specialities.

You can join us for a specialty course or just to go diving. Rental gear is available and it is transported to and from the park at no extra charge. Take a look at all the Specialties we offer and the dates we are going to be at Dutch Springs. Put them together for a great time. Also, Dutch Springs has an awesome Water Park for all your non-diving friends and family.

Dutch Springs weekend dates for 2020:

June 27 & 28, July 25 & 26, August 29 & 30,
September 26 & 27, October 24 & 25



Boat Diving

Long Island Style

Of the many activities we can enjoy underwater, Wreck Diving is often mentioned as number one or two. Taking our Wreck Diving course will give you the skills to navigate the wreck and deal with not getting back to the anchor line. But, what if you have little or no experience being on a boat. If that is the case our Boat Diving program is just right for you.

Diving with one of our wonderful instructors, you will have a chance to do a wreck dive right off of Long Island. Long Island is home to many historical wrecks. This is a personalized program, with just you (or you and your buddy) diving with the instructor.

The course includes one lecture - which is done on Long Island at Tiedemann's Diving Center, two dives - which are done off one of our local dive boats, the SSI Boat Diver online program (a \$75 value) and a physical card (a \$25 value).

This program is open to all divers who are Open Water Diver certified and have taken our Wreck Diving program. You can take it alone or with a buddy. We will only take a buddy team, in the program, if they have a history of diving together.

The basic cost of the program is \$250 plus boat fees. Typical boats fees, to covering the diver and instructor, can be anywhere from \$120 (for a \$80 dive trip with instructor and two students) to \$300 (for a \$150 dive trip with instructor and one student). The cost of the boat fees depends on the wreck on which the dives take place and the dive boat used.



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Computer Diving

Do you want a better picture of the nitrogen in your body? No one wants to have problems with Decompression Sickness. Avoiding it is an important part of dive planning. Yet the way many divers keep track of the nitrogen in their bodies (by using the dive tables) is not realistic. If you want to know just what is going on inside your body when you are diving you need a dive computer. Since we wear the computer - the computer has all the details about how deep we were and how long we were there. This gives the computer all the information it needs to help you to dive safely.

The Computer Diving course gives you the skills to use your dive computer safely and to it fullest. To name a few of the benefits - safer margins, more bottom time, perfect record keeping, underwater timing, above water timing, easier dive planning, can be used with Nitrox - the list goes on and on.

Tiedemann's Diving Center is offering a Computer Diving certification program year round. You can take the academics at any time and do the two dives during our monthly Dutch Springs weekends or on one of our exotic trips.

The course includes one lecture - which is done on Long Island, two dives using a computer and the SSI online program (a \$75 value) and physical certification card (a \$25 value).. The course price is \$250.



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Coral Identification

Visiting a coral reef is like going to another planet. A unworldly place which seems to be created just for our enjoyment. Populated with colorful fish, soft and hard corals it seems more like beautiful children's book than a real place. Let alone a place that we can be in, if only for a short time.

For many divers that is what the reef is, a mysterious and beautiful place. For some divers, those with a curious mind, it a interesting puzzle to be solved. If that is you, curious, then this is your program. Coral Identification is the course for divers who wan to know more about this amazing environment.

Over the course of two academic sessions we will prepare you for your next tropical adventure. Dives can be done on one our our Tiedemann's tropical trip or on your own dive trip. The cost of the program is \$200. That includes the SSI online program (a \$75 value), two academic session here on Long Island, and a certification card (a \$25 value).

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Deep Diving

Having the skills to plan and make safe deep dives can help divers to see some of the most spectacular sights that the underwater world has to offer. Making safe deep dives requires solid training and expertise. The right equipment is also part of safe Deep Diving.

In the Deep Diving program you will develop a comprehensive knowledge of Decompression Sickness, Oxygen Poisoning and Nitrogen Narcosis. In the Deep diving program you will develop the required expertise in using up lines, pony bottles and dive computers. Air consumption, and how it affects dive planning, must be understood. Air management is critical. All of these topics and more are part of our Deep Diving Program.

The program is open to all divers who have their Open Water Diver certification and completed the Computer Diving program and Wreck Diving program and have logged 25 dives. The dives will be done at depths from 60 to 100 plus feet.

The course consist of one/two academic review sessions - which are done on Long Island, four dives done at Dutch Springs over two days, registration in the SSI online Deep Diving program (a \$75 value) and a physical certification card (a \$25 value). The course price is \$400.

If you are ready to do the next level, the Deep Diving Program is for you.

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Dry Suit Diving

Diving with a Dry Suit means being warmer and that means longer dives, dives in colder water, diving earlier in the year, diving later in the year. There are a number of reasons to use a dry suit for your diving.

In our Dry Suit Diving course you will learn what it takes to dive safely in a dry suit. Working our way from the pool into open water.

The program consist of the SSI online program (a \$75 value), physical card (a \$25 value), one academic review session at Tiedemann's Diving Center, one pool session and one day of diving (two dives) at Dutch Springs (during one of our Dutch Springs weekends).

The cost of the program is \$300. We strongly suggest you do the program with your own dry suit. If you do not own a dry suit, we can make arrangements for a rental (price to be determined).

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Equipment Tech

“Diving is a sport in which a lot of equipment is used.”

Want to get the most out of your Scuba equipment? Then you want to take the Equipment Techniques course. This course is the best way to make sure your gear is working properly for every dive.

Learn more about how equipment works. We look at how to do field repairs - to deal with little problems that might come up. Most importantly we cover how to maintain your gear - so it is perfect for any dives you want to do.

The course includes two lectures - which are done at the shop in Levittown and two dives (which can be done on one of the shop trips or at Dutch Springs or on your next vacation). The program cost is \$250. That includes the two lectures, online access to the SSI Equipment Techniques program (\$75 value), and a physical certification card (\$25 value).

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Fish Identification

The fish that populate the tropical reefs, we love so much, are its citizens. As visitors of the reef it seems only natural to want to know more about them. The Fish Identification program gives divers the knowledge to see the reef in a whole new way. No longer will you come up from a dive and talk about that "yellow" fish you saw. Now you have a name and a little more understanding how your "yellow" fish fits into the life of the reef.

Visiting a coral reef is like going to another planet. A unworldly place which seems to be created just for our enjoyment. Populated with colorful and interesting fish. Identifying them and knowing more about them will make that visit much more special. Get to know the citizens of the reef.

Over the course of two academic sessions we will prepare you for your next tropical adventure. Dives can be done on one of our Tiedemann's tropical trips or on your own dive trip. The cost of the program is \$200. That includes the SSI online program (a \$75 value), two academic sessions here on Long Island, and a certification card (a \$25 value).

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Underwater Imaging



How can you share the underwater world with your above water friends? Underwater photos and videos have allowed divers to share the amazing sites we get to see as divers. Sharing photos with family and friends or just looking at them - priceless.

Getting good photos/videos underwater can be challenging. In our program we work with you personally to help you get the photos and/or videos you can be proud of.

Whether you are into photos or video we will show what it takes to get the images that will "wow" your friends and family. This course can be done with your own personal camera or one of our cameras.



The course includes one academic review session - done on Long Island, two dives done at Dutch Springs (or on one of our great Tiedemann's trips), the SSI online program (a \$75 value) and a physical certification card (a \$25 value). The cost of the program is \$250.



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Navigation

Not knowing where you are can be a little scary. Not knowing where you are underwater can be a problem. Good divers should have a good idea where they are at all times. Whether you are using natural navigation or compass navigation you need to know. We don't want to have a long swim back on the surface. You don't want to have a problem with boats because you ended up somewhere you should not be. Navigation is important for every diver on every dive.

In your Open Water Diver course you learned the basics. Now it is time to develop the navigation skills that we can rely on so we always know where we are.

The course consist of one academic review session on Long Island (at Tiedemann's Diving Center), two dives at Dutch Springs (on one of our many Dutch Springs weekends) and the SSI Navigation online program. The cost of the program is \$250 which includes the SSI online program (a \$75 value) and a Navigation certification card (a \$25 value).

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Night Diving

Diving at night can be one of the more interesting ways to enjoy the underwater world. Colors are more true, different marine life is out and about and swimming in the darkness gives the dive an unworldly feel. Very exciting...

Certification as a Night Diver allows you to go on night dives and see the underwater world in a whole new way.

The course includes one lecture - which is done on Long Island at Tiedemann's Diving Center, two dives - which are done at Dutch Springs - during one of our Dutch Springs Weekends and the SSI online program.

The SSI online program allows you to work on the course material - any time or place - where you have access to your smartphone or a web browser.

This program is open to all divers who are Open Water Diver certified. The cost of the program is \$250. That includes online access to the SSI Night Diver program (a \$75 value), two dives at Dutch Springs and a physical certification card (a \$25 value).

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Enriched Air Nitrox

Do you want a better safety margin when it comes to Decompression Sickness? Longer bottom times? A clearer head when diving? Nitrox can be helpful in all these areas.

Certification as a Nitrox Diver allows you to use Nitrox when diving. Here are few benefits that you may not know about: Since Nitrox contains less nitrogen, you will get longer dive times. As an example, the time limit for an air dive to 70 feet is only 40 minutes. With a Nitrox mix of 36 (36% oxygen and 64% nitrogen) the time limit is 70 minutes. If you think 40 minutes is enough time for a dive to 70 feet consider this... If you make the dive on air and go for 40 minutes you are right at the limit - no margin for safety. You are using 100% of the time allowed. If you make the dive on Nitrox 36% for 40 minutes you are only using about 60% of the time allowed - that is a great safety margin.

Since Nitrox contains less nitrogen, the effects of Nitrogen Narcosis are lessened. Less Narcosis means clearer head while diving. Less likely to make a mistake. Safer diving. Since Nitrox contains less nitrogen, you will get longer dive times. Many people think Nitrox is for deep diving. Nitrox does not work in deep diving - you will learn this in the Nitrox course. Nitrox can be dangerous in deep water - that's why you need to be certified to use it.

The course consists of one/two academic review sessions - which are done on Long Island, two dives using Nitrox done at Dutch Springs (fills and tanks provided), registration in the SSI online Nitrox program (a \$95 value) and a physical certification card (a \$25 value). The course price is \$295. If doing the dives with us at Dutch Springs is a problem, you can do the dives on your next dive vacation. If you do the dives on vacation, the price of the course is only \$200 (that includes the two academic review sessions, the SSI online program and physical certification card).

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Perfect Buoyancy

The great sensation of diving is neutral buoyancy. Neutral buoyancy is a state of weightlessness - something enjoyed by astronauts and Scuba Divers. Getting your buoyancy just right can be challenging for new and old divers alike. In the Perfect Buoyancy course you will have the chance to perfect your buoyancy under the watchful eye of an instructor. On each dive you see just what it takes to achieve "perfect buoyancy".

The course includes the SSI online program, one lecture - which is done on Long Island at Tiedemann's Diving Center, two dives - which are done at Dutch Springs during one of our Dutch Springs Weekends.

The SSI online program allows you to work on the course material - any time or place - where you have access to your smart phone or a web browser. The cost of the online program (a \$75 value) is included in the price of the course.

This program is open to all divers who are Open Water Diver certified. The cost of the program is \$250. This includes the SSI online program (a \$75 value), one lecture on Long Island, two dives at Dutch Springs and a physical certification card (a \$25 value).

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React Right

This is SSI's unique course that is a complete emergency/first aid program. It gives you the skills to handle all types of emergencies - diving and non-diving. The definition of first aid is "help given to a sick or injured person until full medical treatment is available". For this help to work in all types of emergencies it needs to be able to handle many things.

The React Right program covers - First Aid - CPR - AED - Oxygen Administration.

General First Aid which not only covers the standard areas of first aid (like burns and broken bones, etc.) but also covers first aid for marine injuries.

CPR - Cardiopulmonary Resuscitation - This life-saving technique is invaluable in the case of drowning victims. Everyone around the water should have a working knowledge of CPR.

AED - Automated external defibrillator is a portable electronic device that automatically diagnoses the life-threatening cardiac arrhythmias of ventricular fibrillation and ventricular tachycardia in a person. Being able to use an AED, can help you to save a life.

Oxygen Administration - This is the one situation that every diver should be able to handle. Would you be able to use the oxygen kit on a dive boat or club beach dive? Oxygen is the number one first aid treatment in the cases of decompression sickness. Make sure you know what to do to get your fellow divers the oxygen they may need.

The program consists of three academic sessions at Tiedemann's in Levittown. The cost of the program is \$295. That includes the SSI online program (a \$95 value) and the use of all special training equipment (Annies, AEDs, etc.) and a physical card (a \$25 value). Certification is good for two years. Certification in these four areas is needed for certification as a Rescue Diver. Certification in these four areas are needed for all leadership certification (Dive Guide, Dive Master, Assistant Instructor and Instructor).

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Diver Stress & Rescue

This is a realistic look at diving problems and how to avoid them if we can or how to deal with them. In your Open Water Diver program you learned to deal with simple problems like cramp release and diver assist. Now we want to give you a chance to look at the more complex problem - lost diver - panic diver underwater and on the surface - realistic out of air situations underwater - working as a team to solve a complex rescue problem. This is a program for the diver who really wants to be the best diver they can be. Good divers know how to take care of themselves. Great divers know how to help others.

This program is needed to receive the very prestigious "Master Diver" certification. This is the highest level of non-leadership certification. It is also needed if you are interested in a leadership role in diving. Leadership positions include: Dive Guide, Dive Master, Assistant and Instructor. Remember Tiedemann's Diving Center offers programs all the way up to instructor. All done right here on Long Island. All divers taking the program must have completed the Search and Recovery program and have logged at least 12 dives.

The program consists of one academic review session on Long Island (at Tiedemann's Diving Center), completing the SSI online program for Stress/Rescue and one day of diving at Dutch Springs. The cost of the program is \$295. That includes one day of diving at Dutch Springs, the SSI online program for Stress/Rescue (a \$95 value), academic review session, and a physical certification card (a \$25 value).

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Search & Recovery

Ever since humans started going underwater we have been finding things and bringing them to the surface. At first it was for food. Then has humans traveled the sea in boats, it was for things that we lost.

No matter what you are looking for and trying to bring to the surface - knowing how to do it the right way is very important. You don't want to waste your time and you want to be safe.

In the Search and Recovery Program you learn how to find things and bring them safely to the surface. The program covers ways to locate objects using line reels and natural navigation. Once an object is found you need to know the safest way to get it to the surface. All covered in the program.

The program consists of one academic review session on Long Island (at Tiedemann's Diving Center), two dives at Dutch Springs (during one of our great Dutch Springs weekends), the SSI online program for Search and Recovery (a \$75 value) and a physical certification card (a \$25 value). The cost of the program is \$250.

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Science of Diving

Think about this - every time we go diving we use skills, knowledge and equipment to do something we were not designed to do - be underwater and breathing. Sometimes we forget just how amazing that is.

Well, if you want to know about the science that goes into us being able to be underwater and breathing - then this is the course for you. The Science of Diving touches on every aspect of diving. The areas covered will include: Diving Physics, Diving Physiology, Decompression Theory, Dive Equipment, Aquatic Environment and Technical Diving. Knowledge that you will find useful in all your diving activities.

Diving Physics covers the principles underlying all physical interactions experienced by a diver. This will teach you why air spaces behave as they do, and the steps you can take to control them under pressure. Gasses are discussed in detail, including situations where it is best to use each in diving. Energy transfer, buoyancy, and gas consumption are also discussed and applied to real-life scenarios to increase a diver's understanding of the underwater environment.

Diving Physiology outlines the respiratory and circulatory systems as well as thermal properties of the body. With an understanding of these systems, a diver can explain how they are affected underwater and how to recognize and prevent injury from excessive stress.

Decompression Theory discusses inert gas absorption and elimination. It lays a foundation for all decompression diving - a major part of most technical dives - and explains why divers must carefully monitor their time at depth, rate of ascent, and dive profile. Real life scenarios are applied to this information so divers can make informed decompression decisions. The ultimate goal, of course, is to minimize the risk of decompression injury.

The Dive Equipment section expands on basic equipment and introduces components of technical gear. A diver will learn about the available options, including advantages and disadvantages, of each part of a diver's equipment. Advanced topics include types of first stage regulators, gauges, and full face masks. You will learn how to maintain and handle your equipment for years of optimal use.

The Marine Environment section covers ocean movements and aquatic ecosystems. These ecosystems consist of fragile interconnected components and disturbing them can have lasting consequences. The steps divers can take to respect the environment are discussed as well as how to ensure personal safety among underwater hazards. This section is perfect for a diver who can handle themselves in the water and wants to know more about the surrounding environment. Dive guides will also benefit from a knowledge of how currents affect dive logistics as well as marine life.

The SSI Science of Diving Specialty is a prerequisite for the SSI Divemaster certification. With the completion of this course, the diver needs only the Dive Guide certification to become a full Divemaster.

You will finish this course with a greater understanding of diving that will provide the perfect knowledge-base for the next step in your dive instruction. Whether you are interested in technical diving, equipment servicing, marine conservation or underwater photography, you will benefit from all sections of SSI Science of Diving.

The cost of the program is \$300. This includes registration with SSI for the Science of Diving online program (\$95 value) and a certification card (\$25 value). The course consist of 5 academic review sessions (extra review sessions may be added, dependent on class interest).

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Wreck Diving

Of the many activities we can enjoy underwater, Wreck Diving is often mentioned as number one or two. Most divers find the underwater wrecks to be fascinating. Whether it was caused by an act of war or an act of God (weather), these dives can be some of the most memorable. In our local area - Long Island - we have dozens of wrecks we dive regularly. New York Harbor was and is one of the busiest in the world.

To be a good wreck diver you need a certain number of fundamental skills that make sure you can make your dives on wrecks safely. These skills are at the heart of our Wreck Diving Program. Over the course of one review session and two dives, you will learn what it takes to be a good wreck diver. The SSI online study program gives you information to start. Then in our 2-hour review session we put together that information with our dive plan.

At Dutch Springs we then take our plan and do two dives to work on these all important skills. During the dives we will supply all needed specialized equipment - wreck reels, lift bags, Jon lines and SMB's.

The course includes one lecture - which is done on Long Island at Tiedemann's Diving Center, two dives - which are done at Dutch Springs - during one of our Dutch Springs Weekends, the SSI Wreck Diver online program (a \$75 value) and a physical card (a \$25 value). This program is open to all divers who are Open Water Diver certified. The cost of the program is \$250.

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