

3.1.9 Rescue Primer

3.1.9.1 Course Outcomes

GUE's Rescue Primer is a course designed to teach divers basic rescue techniques relevant to scuba diving emergencies. Course outcomes include, but are not limited to: assisting a distressed diver on the surface; assisting a distressed diver underwater, including unconscious diver recovery; missing diver protocols; surface management of a diving emergency; and diving basic life support (BLS) skills for DCI.

3.1.9.2 Prerequisites

Applicants for a Rescue Primer course must abide by [Training Prerequisites \(2.1.4.1\)](#), plus:

- a. Be a minimum of 16 years of age. Documented parental or legal guardian consent must be submitted to GUE HQ when the participant is a minor.
- b. Hold a GUE Open Water Diver, GUE Performance Diver, or GUE Fundamentals certification.
- c. Have conducted at least 15 non-training dives following completion of either GUE Open Water Diver, GUE Performance Diver, or GUE Basic Fundamentals¹ certification.
- d. Have completed basic life support (BLS) training from a recognized training agency within the twenty-four months prior to the start of the class.
- e. Have completed and passed GUE Navigation Primer or show competency in advanced compass and natural navigation, including using a spool or reel as a guideline.
- f. If using doubles during the course, have conducted at least 15 non-training dives in the GUE double tank configuration or have conducted 10 dives utilizing doubles following completion of GUE Doubles Primer certification.
- g. If using a drysuit during the course, have conducted at least 15 non-training dives in a drysuit or have conducted 10 non-training dives utilizing a drysuit following completion of GUE Drysuit Primer certification.

3.1.9.3 Course Content

The Rescue Primer is normally conducted over two days. It requires a minimum of four in-water sessions (including three dives) and at least sixteen hours of instruction, encompassing lectures, land drills, and in-water work.

3.1.9.4 Rescue Primer Specific Training Standards

- a. Student-to-instructor ratio is not to exceed 6:1 during land drill or surface exercises; it cannot exceed 3:1 during any in-water training.
- b. Maximum depth of 60 ft/18 m.
- c. No overhead diving.
- d. All dives must be within minimum decompression limits (MDLs), i.e., no required stops.

3.1.9.5 Required Training Materials

GUE training materials and recommended study as determined by the course study packet available online or via download after GUE course registration.

¹ Including GUE Fundamentals with Recreational rating issued under past versions of Standards.

3.1.9.6 Academic Topics

- a. Introduction: GUE organization and course overview (objectives, limits, expectations)
- b. Diving safety, accident dynamics and prevention
- c. Scuba diving rescue techniques
- d. Emergency management
- e. DCI and other diving related injuries
- f. Scuba diving related BLS skills

3.1.9.7 Land Drills and Topics

- a. Equipment fit, assembly and disassembly, GUE EDGE, and pre-dive checks
- b. Swimming and non-swimming surface assists
- c. Basic 5 rescue skills
- d. Egression techniques
- e. Controlling a distressed diver on surface and underwater
- f. Underwater search patterns
- g. Unconscious diver rescue
- h. Surface marker buoy (SMB) deployment utilizing a spool (if teaching to GUE Performance Divers without GUE Navigation Primer certification)

3.1.9.8 Required Dive Skills and Drills

Students must demonstrate competence in the following skills to attain GUE Rescue Primer certification:

- a. Must be able to swim at least 300 yds/275 m in less than 14 minutes without stopping. This test should be conducted in a swimsuit and, where necessary, appropriate thermal protection.
- b. Must be able to swim a distance of at least 50 ft/15 m on a breath hold while submerged.
- c. Demonstrate a safe and responsible demeanor throughout all training.
- d. Demonstrate basic equipment proficiency and an understanding of the GUE equipment configuration.
- e. Demonstrate proficiency in safe diving techniques, including pre-dive preparation, in-water activity, and post-dive assessment.
- f. Demonstrate awareness of team member location and a concern for safety, responding quickly to visual indications and dive partner needs.
- g. Demonstrate proficiency in underwater communication.
- h. Demonstrate proficiency in proper ascents and descents, including the implementation of variable ascent rates.
- i. Demonstrate good buoyancy and trim, i.e., approximate reference is a maximum of 30 degrees off horizontal while remaining within a range of 5 ft/1.5 m from target depth.
- j. Comfortably demonstrate at least three propulsion techniques that would be appropriate in a delicate and/or silty environment, including comprehension of the components necessary for a successful backward kick.
- k. Demonstrate the ability to connect and disconnect the drysuit inflation hose (if using a drysuit).
- l. Demonstrate the ability to manage a drysuit inflation valve that is stuck in the open position (if using a drysuit).

- m. Efficiently and comfortably demonstrate how to manage a freeflow that leads to out-of-gas.
- n. Efficiently and comfortably demonstrate how to donate gas to an out-of-gas diver in multiple gas-sharing scenarios.
- o. Demonstrate proficiency in the ability to deploy a surface marker buoy (SMB) while using a spool.
- p. Demonstrate effective navigation using a compass and managing a spool as a guideline underwater.
- q. Demonstrate proficiency in fundamental diver rescue techniques, including assessing a rescue scene, supporting and recovering distressed, tired, and unconscious divers at the surface, recovering an unconscious diver to the surface, and a range of simulated diving incidents.

3.1.9.9 Equipment Requirements

GUE base equipment configuration as outlined in Appendix A, plus:

- a. One primary and one backup light

Prior to the commencement of the class, students should consult with a GUE representative to verify equipment requirements and the appropriateness of any selected equipment.

Appendix A - GUE Equipment Configuration

The GUE base equipment configuration is comprised of:

- a. Tanks/cylinders: Students may use a single tank/cylinder with a single- or dual-outlet valve. Students may also use dual tanks/cylinders connected with a dual-outlet isolator manifold, which allows for the use of two first stages. Dual tanks/cylinders connected with a dual-outlet, non-isolator manifold can be used, but only in recreational (minimum decompression) diving, and are considered an alternative for a single tank/cylinder. Consult course-specific standards and your instructor to verify size requirements.
- b. Regulators:
 - i. Single tank: The first stage must supply a primary second stage via a 5 to 7 ft/1.5 to 2 m hose. A backup second stage must be necklaced and supplied via a short hose. The first stage must also supply an analog pressure gauge, inflation for the buoyancy compensator (BC), and (when applicable) inflation for a drysuit.
 - ii. Double tank: One first stage must supply a primary second stage via a 5 to 7 ft/1.5 to 2 m hose (7 ft/2 m hose is required for all cave classes), and inflation for the buoyancy compensator (BC). The other first stage must supply a necklaced backup second stage via a short hose, an analog pressure gauge, and (when applicable) inflation for a drysuit.
- c. Backplate system:
 - i. Is held to the diver by one continuous piece of webbing. This webbing is adjustable and uses a buckle to secure the system at the waist.
 - ii. A crotch strap is attached and looped through the waistband to prevent the system from riding up a diver's back.

- iii. The continuous webbing must support five D-rings;
 - 1. The first placed at the left hip
 - 2. The second placed in line with a diver's right collarbone
 - 3. The third placed in line with the diver's left collarbone
 - 4. The fourth and fifth are placed on the front and back of the crotch strap when divers plan to use advanced equipment such as DPVs.
- iv. The harness below the diver's arms has small restrictive bands to allow for the placement of backup lights. The webbing and system retains a minimalist approach.
- d. Buoyancy compensation device (BC):
 - i. A diver's BC is back-mounted and minimalist in nature.
 - ii. It is free of extraneous strings, tabs, or other material.
 - iii. There are no restrictive bands or restrictive elastic affixed to the buoyancy cell.
 - iv. Wing size and shape is appropriate to the cylinder size(s) employed for training.
- e. At least one time/depth measuring device
- f. Wrist-mounted compass
- g. Mask and fins: Mask is low-volume; fins are rigid, non-split.
- h. Backup mask
- i. At least one cutting device
- j. Wetnotes with at least one pencil
- k. Exposure suit appropriate for the duration of exposure
- l. Surface marker buoy (SMB) with spool: Where required, the SMB should be appropriate for environmental conditions and deployed using a spool with at least 100 ft/30 m of line.

The GUE PSCR configuration is comprised of:

- a. GUE base equipment configuration (except Tanks/Cylinder)
- b. One primary and two backup lights
- c. A GUE-approved passive semi-closed circuit rebreather
- d. Modified tank configuration as appropriate for use with a GUE-approved passive semi-closed circuit rebreather
- e. Modified regulator configuration as appropriate for use with a GUE-approved passive semi-closed circuit rebreather

The GUE CCR configuration is comprised of:

- a. GUE base equipment configuration (except Tanks/Cylinder)
- b. One primary and two backup lights
- c. A GUE-approved closed-circuit rebreather
 - i. Where required, students must own a GUE-approved closed-circuit rebreather before attending the course; they can, however, use a rented or borrowed unit during the course.
 - ii. The closed-circuit rebreather used by the student, with all associated components, must be fully functional (pass all tests on the rebreather pre-dive checklist) and serviced according to manufacturer specifications.
 - iii. All oxygen sensors must be less than one year from manufacturing date.
 - iv. Both the rebreather controller and SOLO board must be updated with the latest software and firmware versions published by the manufacturer.

- d. Modified tank configuration as appropriate for use with a GUE-approved closed-circuit rebreather
- e. Modified regulator configuration as appropriate for use with a GUE-approved closed-circuit rebreather
- f. Spare parts and consumables, including one set of controller, HUD, and solenoid batteries; one oxygen sensor; and one DSV/BOV mouthpiece.
- g. If using a drysuit inflation cylinder attached to the backplate, extended inflation cylinder straps need to be used to ensure that it does not interfere with or restrict the counterlung's function.

The GUE Sidemount configuration is comprised of:

- a. GUE base equipment configuration (except Tank/cylinders, Regulators, Backplate, BC)
- b. One primary and two backup lights
- c. Tanks/cylinders: Students are required to use independent cylinders with single valves and without manifolds, which allow for the use of one first stage each. Stage cylinders with [proper cylinder marking \(2.2, e\)](#) will also be utilized.
- d. Regulators: One of the second stages must be on a 7 ft/2 m hose. Both first stages must supply a pressure gauge and provide inflation for a drysuit (where applicable) and a wing.
- e. Sidemount harness: A diver's sidemount setup should be back-mounted and minimalist in nature. Wing size and shape should be appropriate to the cylinder size(s) employed for training.

Additional Course-Specific Equipment

- a. Where required, back gas and stage cylinders with [proper cylinder marking \(2.2, e\)](#) will also be utilized in accordance with the GUE General Training Standards, Policies, and Procedures document and configured in line with GUE protocols.
- b. When drysuit inflation systems are applicable, they should be sized appropriately for the environment; small tanks are placed on the left side of the backplate with larger supplies affixed to the diver's left back gas tank.
- c. Underwater lights:
 - i. When required, backup lights should be powered by alkaline batteries (not rechargeable) and stowed on the D-rings at a diver's chest (except when diving sidemount).
 - ii. Backup lights should have a minimal amount of protrusions and a single attachment at the rear.
 - iii. Backup lights should feature a twist-on/off switch for operation
 - iv. The primary light should consist of a rechargeable battery pack and be fitted with a Goodman-style light handle.
 - v. When burn time requirements create the need for an external battery pack, it should reside in a canister mounted on the diver's right hip.
- d. Guideline devices, as required during cave diving activities:
 - i. A primary reel is required for all cave diving and provides a minimalist form factor with a handle designed to support a Goodman or "hands free" handle operation. The primary reel must contain at least 150 ft/45 m of line.
 - ii. A safety spool is required for each diver while cave diving and must contain at least 150 ft/45 m of line.

- iii. A jump or gap spool is required during Cave 2 diving and must contain at least 75 ft/23 m of line.
 - e. Where required, GUE-approved DPV must:
 - i. Be a tow-behind style with adjustable speed and clutch mechanism.
 - ii. Include an attached cord at the back with bolt snap to be clipped on the front crotch strap D-ring.
 - i. Include a leash attached to the front to be used for towing.