



Floods and Moving Water

Course Objectives

Floods and Moving Water is Dive Rescue International's renowned 24-hour training program for dive teams, water rescue teams, law enforcement officers and fire service personnel.

Floods are one of the leading causes of loss of life and property throughout the world. In recent years this type of natural disaster is becoming a more common scenario and communities are demanding their rescue providers be prepared. Due to the potentially enormous scope of a flooding incident, planning is critical to your team's success. Floods can vary in duration and intensity, but many of the concepts for conducting rescue and recovery operations are similar.

Prepare for these special hazards by learning how to organize and manage safe floodwater rescue operations. Participants in this program should be prepared for multiple in-water scenarios.

Key training topics and the associated objectives include:

FLOODS

- Identify the types of water that characterize a flood
- Explain the three types of floods
- Describe the two factors that affect the severity of a flood
- Define the following terms: channel, flood plain and flood event

FLOOD HAZARDS

- Identify the three types of flood hazards
- Discuss the challenges of dealing with the different types of flood hazards including electrical, vehicle and chemical

CHARACTERISTICS OF FLOODING WATER

- Discuss flood water hydrology, water dynamics and the three different types of water flow
- Calculate volume and force of moving water
- Define the terms pillow, hole and eddie in relation to moving water
- Discuss standing waves and downstream/upstream V's

RESCUE HAND SIGNALS

- Identify and demonstrate rescue hand signals and discuss when they are used

EQUIPMENT

- Identify Personal Protective Equipment for shore responders, flood water rescuers and flood water teams



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FUNDAMENTAL FLOOD RESCUE TECHNIQUES

- Discuss the training levels of flood rescue techniques
- Identify self-rescue techniques and discuss flood water maneuvering
- Explain victim rescue techniques and scenarios to avoid when rescuing a victim
- Describe the Reach, Throw, Row and Go rescue techniques
- Discuss the types of Go techniques as well as the technical rescue techniques
- Explain the SANE approach to water rescue

GENERAL PATIENT CARE

- List and discuss medical considerations and field management

PREPLAN

- Discuss the following: sources of information and resources available for preplanning, locating flood hazards and surveying of potential flood sites

DURING A FLOOD EVENT

- Explain Risk/Benefit Analysis
- Discuss scene evaluation as well as ongoing evaluation

POST FLOOD EVENT

- List equipment needed for post flood search and rescue operations
- Discuss search techniques used
- Explain how to handle post flood hazards as well as recovering of deceased victims

BE SURE TO BRING

All students should bring: clothing appropriate for weather conditions, adequate footwear, watersports helmet, and U.S. Coast Guard approved P.F.D. (Type III or V) with whistle and cutting tool, and pen and paper. In-water participants must provide their own wetsuit or swiftwater dry suit, water rescue gloves, work gloves and fins.

PREREQUISITES

All students must be a current member of a public safety agency and at least 18 years of age. This program is designed for personnel who are physically fit. Participants are encouraged to participate after successfully completing the IADRS Watermanship Test or testing to a fitness level of 13 MET (Metabolic Equivalents) or greater. Participants with aerobic fitness questions or concerns should consult their physician prior to in-water training. Participants who have poor aerobic fitness may attend this program as surface support personnel with the approval of the instructor.



Floods and Moving Water Schedule

DAY 1

8:00 – 8:30	Registration, Introductions, and Course Review
8:30 – 12:00	Classroom
12:00 – 1:00	Lunch Break
1:00 – 5:00	Field Exercises

DAY 2

8:00 – 12:00	Field Exercises
12:00 – 1:00	Lunch
1:00 – 5:00	Field Exercises

DAY 3

8:00 – 2:00	Field Exercises
2:00 – 3:00	Lunch
3:00 – 5:00	Review, Final Exam, and Closing