

# Level 4: Whitewater Kayaking Skills Course

#### **Skills Course Overview**

This course is designed as a short program emphasizing safety, enjoyment, and skill development. The skills and knowledge gained through this course can set the stage for a lifetime of exploration, adventures, a healthy lifestyle, appreciation of water and the natural world, lasting memories with family and friends, and a rewarding experience for all - we paddle because it is fun.

If you're a student who would like a resource to prepare for this course, ACA is pleased to provide a free online paddling safety course, <u>here.</u> A certificate of completion is included!

### **Skills Course Prerequisites**

- Acknowledgment of personal compliance with the <u>ACA Essential Eligibility Criteria</u>
  (EEC)
- No prior paddling experience or training is required to participate in this course

#### **Course Duration**

2 days (16 hours) or more.

#### **Course Location / Accessible Venues**

Moving water on rivers up to and including class II-III sections. A rapid class includes rapids at the lower and upper ends of the difficulty range, designated "-" and "+" respectively.

#### **Course Size**

5 Participants : 1 Instructor; with an additional qualified assistant, the ratio can be 10 : 2. The maximum number of participants permitted is 10.

#### Instructor

This course may be offered by Level 4: Whitewater Kayaking (or higher) ACA Instructors, Instructor Trainers, or Instructor Trainer Educators.

## **Succeeding Courses**

- Level 4: Whitewater Kayaking Assessment, or Certification Course
- Level 5: Advanced Whitewater Kayaking Skills or Assessment Course

#### **Course Outline**

The sequence of this course should be adjusted to best fit the participant's needs, class location, time allowance, and craft being used.

#### Introduction, Logistics, and Expectations

- Welcome! We're so glad that you've chosen to further your paddling experience and education by attending this course! Let's review a few highlights about the ACA
- Let's talk about the course itinerary, expectations, and limitations
- Lay of the land (and water): the logistics of this venue
- Review liability waiver, assumption of risk, challenge by choice, and medical disclosure
- Life jacket policy: always wear while on the water

#### **Personal Preparation & Getting Started**

- Describe and follow safe boating practices (behavior, substance abuse, on water and land etiquette, Leave No Trace ethics)
- Review elements of a float plan (who, what, when, where, filing practices)

- Discuss current weather conditions, forecasts, and other environmental hazards (wind, water, weather, waves)
- Discuss importance of developing good judgment, group responsibility, management, and dynamics
- Warm up to reduce injury
- Evaluate individual's swimming ability, water comfort, and confidence prior to beginning the trip
- Review paddling terminology and care of gear (to be reviewed by the instructor):
  - Boat: parts, materials, sizing, outfitting
  - Paddle: parts, materials, sizing, hand position
    - How to hold the paddle in correct orientation and grip for effective paddling
  - Spray skirts: types and materials, grab loop
  - Life jacket: types, materials, fit
  - Helmet types and use
- Review of additional personal and group gear, including, but not limited to:
  - Environmental supplies (food, water, appropriate clothing, sunscreen, etc.)
  - Navigational and signaling tools (maps, charts, whistle, etc.)
  - Safety and rescue tools
  - Repair kit
  - First aid kit (appropriate to training)
- Review securing boat for transport on car or trailer using proper tie downs, straps, or knots
  - Knots: Figure-8, bowline, truckers hitch, and 2 half hitches
- Review proper techniques to safely lift and carry the boat on shore
- Prepare boat for departure: stowing gear securely and ensuring it is balanced
- Appropriately use communication (paddle, hand, and whistle) signals

#### **Paddling Efficiently and Comfortably in Flatwater**

- Boat stability (trim, posture, rocking, balance, etc.)
- Efficient and effective paddle placement for intended maneuver
- Safe and effective body usage: bio-mechanics (body, linkage, and rotation)
  - Avoidance of positions that contribute to shoulder injury
- Parts of strokes: CPR (catch, power, recovery), static and dynamic

#### **Flatwater Strokes**

- Forward
- Back
- Sweeps: forward and reverse
- Draws: stern and bow, stationary and sculling
- Rudder
- Duffek

#### **Flatwater Maneuvers**

- Launching and landing: low dock or bank to enter and exit safely
  - Three points of contact, keep weight low, etc.
- Propel the boat forward in a straight line 15-20 boat lengths
- Stop the boat within two boat lengths
- Move the boat backwards in a reasonably straight line 3-4 boat lengths
- Abeam: move the boat sideways 20 feet (6 meters) to each side
- Propel the boat in a figure of 8 course around markers 3-4 boat lengths apart
- Turn the boat while maintaining forward motion 90° to the right and left
- Carving circle: inside and outside

#### **River Hydrology Features and Associated Risks**

Currents

- Rocks (upstream and downstream Vs)
- Ledges and low head dams (horizon lines)
- Pins and entrapment
- Strainers/sieves
- Bends
- Undercut rocks or ice
- Dams/flow diversion structures and pipelines
- Holes and hydraulics

#### **Moving Water Maneuvers in Venue**

- Front ferries: to a fixed point
- Eddy turns: with boat leans into wide eddies
- Peel-outs
- C-turns
- S-turns
- Back ferries
- Sideslips
- Spins
- Braces: low and high
- Front surfing

#### **Safety and Rescue**

- Principles of Rescue
  - Use of safe rescue strategies such as T-RETHROG (Talk, Reach, Throw, Row,
    Go) including throwable buoyancy aids and throw bag use
  - Rescue Priorities: people, boat, paddle, gear
  - Responsibilities of the group, rescuer, swimmers

- Appropriate use of rescue and safety gear
- Emergency procedures
- River running strategies
  - River classifications (understanding of Class I VI)
  - Scouting on shore and by boat
  - Portaging and lining
  - Group organization on the river
- Self care and care of other group members
  - Importance of fueling, hydration, clothing/insulation, and sun protection
  - Cold shock, hypothermia, and hyperthermia: prevention and treatment
- Calmly exit the boat after a controlled capsize, using proper body position and contact with the craft and paddle
  - When exiting the kayak with a spray skirt after capsize: must be modeled two ways: (1) utilizing the spray skirt grab loop and (2) releasing the skirt off the hip
- Self rescue: swim 20 feet (6 meters) to shore in moving water using defensive and offensive techniques
- Strategies and techniques for boat recovery including bumping, bulldozing, towing, or swimming a boat to shore
- Swimmer tow options
- Self and assisted swimmer re-entry techniques (i.e., heel hook, rescue sling, etc.)
- Assisted rescues: boat over boat or side by side or others appropriate to conditions
- Unresponsive paddler rescue
- Throw rope use
- One, two, and three person wading with a paddle
- Entrapments with stabilization line
- Boat pins: strong arm and rope/vector strategies
- Emptying water from the boat (on shore, bailers, pumps, etc.)

#### **Conclusion and Wrap Up**

- This has been a great class! Let's talk through what we've learned with a group debrief and/or Individual feedback
- Course limitations: there is always more to learn, and the skills and concepts we discussed require more practice and experience
- First aid and CPR training is a very valuable tool and could make the difference between a "near miss" and an emergency requiring outside rescue / first responders
- Paddling is a lifetime sport there are local organizations, clubs, events, competitions, and classes through which you can continue your learning and build community. Get connected!
- Handouts and reference materials (if applicable)

# Taking an ACA Safety & Rescue course for further training on rescue is strongly suggested

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Date of last revision: 1/1/2023

https://americancanoe.org

This curriculum is managed by the ACA River Kayaking Committee. To connect with the leadership of this committee, please view the SEIC Committee rosters on <a href="mailto:the ACA">the ACA</a> website.