

Level 4: Whitewater Kayak Hand-Paddling Skills Course

Course Overview

This Whitewater Kayak Hand-Paddling course is a program emphasizing safety, enjoyment and hand-paddling skill acquisition for entry-level through intermediate individuals in public, private, and commercial settings.

Course Prerequisites

- · Acknowledgment of personal compliance with the ACA Essential Eligibility Criteria (EEC).
- Recommended course preparation: Complete Level 2: Essentials of River Kayak Hand-Paddling Skills Course

Course Duration

The course duration should be adjusted to best fit the needs and goals of the participants. Half day (4 hours) or more.

Course Location / Accessible Venues

Sections of rivers rated up to and including class II-III, where maneuvering in current is required to avoid obstacles. 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.

For additional details, see SEIC Policy Manual Chapter 6.

Instructor

ACA Level 4: Whitewater Kayak Hand-Paddling Endorsed Instructor (or higher)

Course Outline

The following is a general summary of course content for the Level 4: Whitewater Kayak Hand-Paddling course. The content covered and sequence of instruction should be adjusted to best fit the participant's needs, class location and time allowance.

Introduction, Expectations, and Logistics

- Welcome, introductions, paperwork
- · Student and Instructor course expectations and limitations
- · Course itinerary and site logistics
- · Review waiver, assumption of risk, challenge by choice, medical disclosure
- About the ACA

- PFD policy (always wear on water)
- · Appropriate personal behavior
 - No alcohol / substance abuse
 - Proper etiquette on and off the water
 - Respect private property
 - Practice Leave No Trace ethics

Paddling Environment

- Wind
- Waves
- Weather
- Water

Personal Preparation

- Personal ability
- · Swimming ability
- Fitness, conditioning, and warm up
- · Safe paddle and kayak handling
- Safety and rescue considerations
- · Personal equipment (reviewed by Instructor)
- Judgment. In addition to learning hard skills, the importance of developing personal judgment and group responsibility increases on more difficult paddling venues.

Water Comfort

- · Launching, carries and landing
- Water comfort and confidence

Terminology of Hand-Paddling

- · Types of strokes: power, turning and bracing
- · Stroke components: catch, propulsion, recovery, control, and correction
- · Effective body usage and biomechanics
- · Use of larger torso muscles
- · Body position and how it differs from using a shafted paddle
- · Arms as struts connecting paddle to torso
- · Avoidance of positions that contribute to shoulder injury or dislocations

Equipment

- Kayak: how the shape, style, volume, and intended use may be affected by utilizing hand-paddles versus a shafted paddle
- · Hand paddles: types, parts, size and shape, fitting, position, tethers
- · Spray skirts: types and materials, grab loop, and how removal is achieved when using hand paddles
- · Care of equipment: how to store and preserve hand-paddles depending on material
- · Personal equipment for hand-paddles: gloves, tethers, flotation, backup pair

Safety and Rescue

- Exercising judgment, safety as a state of mind.
- Principles of Rescue
 - Use of safe rescue strategies such as T-RETHROG (Talk, Reach, Throw, Row, Go)
 - Rescue priorities: people, kayak, paddle, gear
 - · Responsibilities of: rescuer, group, swimmers
- Shoreline rescue: extension rescues
- · Pinned craft
- Introduce ACA River Rescue Course

Swimming and Wading Skills

- Understand the risks associated with standing and walking in the types of environments mentioned above (including entanglement and environmental hazards)
- · Strategies to minimize risk of foot entrapment
- · Strengths, limitations, advantages, disadvantages, and risks of wading techniques
- · Actively participate in scenarios that apply wading skills for rescues
- · Wading applications for foot/kayak entrapments
- · Defensive and aggressive swimming positions, and transitions
- · Techniques for successful exits from current to eddies
- · Self-rescue: swimming with equipment
- Strategies to conserve energy
- · Techniques for successful downstream swim of a rapid
- · Swimming techniques for: waves, hydraulics, and drops
- · Strategies for managing strainers in the appropriate venue

Kayak-based Rescues

- Advantages and disadvantages during rescues of various kayaks (e.g., play boats, creek boats, inflatable kayaks)
- Calmly exit the kayak after capsize, using proper body position and contact with the kayak 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 spray skirt off the hip (with and without maintaining possession of hand-paddles)

- Paddle recovery options
- · Strategies for kayak recovery
- · Swimmer tow options
- · Swimmer re-entry / re-mount techniques (e.g., stern entry, heel hook, rescue sling, paddle float)
- Kayak bumping / bulldozing
- · Kayak towing
- Kayak specific rescues (e.g., boat over boat, boat to boat, scoop)
- Unresponsive paddler rescue
- Emptying water from kayak (e.g., on-shore, bailers, pumps)

Throw Rope Skills

- Throwing techniques
- Receiving techniques
- · Belaying techniques
- Rope management and safety strategies
- · Rope coiling methods and throwing techniques

Maneuvers

- Forward: kayak moves in a reasonably straight line.
- Reverse: kayak moves in a reasonably straight line
- · Stopping: kayak stops within a reasonable distance
- · Turns: kayak turns in broad arc made while underway
- · Veering, carving, paddling the "inside circle"
- Spin
- Ferries
- Eddy turns
- Peel outs
- · Moving abeam
- · Sideslips: kayak moves sideways with headway

Strokes

- Forward (alternating hands)
- Power forward (both hands)
- Back (alternating hands)
- Power back (both hands)
- Draw

- Side
- Stationary
- Sculling
- Stern
- Sweep
 - · Forward sweep anticipatory and reactive techniques
 - Reverse sweep
 - Neutral sweep (hands moving in opposite directions to create rotation)
- Brace
 - Single brace (one-hand/one-side)
 - Double brace (both hands on same side)
 - Wing brace (both hands on opposite sides)
- Rudder
- Roll
 - Optional at instructor's certification level and discretion

River Reading

- Universal River Signals with hand-paddles
- · How to establish the "best" route and how that might differ for when using hand-paddles
- · Identifying, planning for, and navigating obstacles and hazards when using hand-paddles
- · Cold water considerations, especially as they pertain to hand-paddling
- · Demonstration of effective use of paddle strokes with hand-paddles
- · Demonstration of effective whitewater maneuvers with hand-paddles
- Ferries
- · Eddy turns
- Peel outs
 - Wide (exit wide from eddy line)
 - Shallow (exit close to eddy line)
- Sequences of maneuvers
 - C-turns (Peel out and eddy into same eddy)
 - S-turns (Peel out one side and eddy into opposite side)
- Surfing

Individual Development

• Judgment

In addition to learning hard skills, the importance of developing personal judgment and group responsibility

increases when using hand-paddles, particularly on more difficult paddling venues.

- Self Evaluation
 - What moves are required to successfully run the rapid?
 - Can I perform the required moves with hand-paddles?
 - · What are the consequences of missing the required moves?
 - Am I willing to accept these consequences?
 - What if?
 - Rescue considerations

Group Evaluation

Your decision to use hand-paddles as a primary or secondary tool may depend largely on, not only your personal skills and abilities, but the river venue and the group:

- Skill level of the group
- · Size of the group
- Group consequences
- Condition of the group
- · Continue learning process from more experienced paddlers
- Responsibility to support other paddlers (no peer pressure)
- · Group equipment: extra paddles, rescue sling, dry bags, maps, First Aid kit and location, rescue gear
- Guidebooks / local knowledge
- Assessing current environmental conditions (including: water, weather, time of day, and temperature, limited access: canyons, cliffs, remote area)
- · Assessing personal and group dynamics (skills, equipment, group makeup, mental status
- · Logistics, group selection, leadership

Conclusion and Wrap Up

- Group debrief / individual feedback
- Course limitations
- Importance of First Aid and CPR
- · Importance of additional instruction, practice, experience
- · Importance of appropriate level of safety and rescue training
- Life sport / paddling options
- Local paddling groups / clubs
- Handouts / reference materials
- ACA membership forms
- Course evaluation

• Participation cards

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Date of last revision: 12/31/2023

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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 <u>the ACA website</u>.