



# Level 5: Advanced Whitewater Rafting - Oar Instructor Criteria

## Overview

Fundamentally, participants are expected to have the paddling skills, technical knowledge, rescue ability, teaching ability, group management, and interpersonal skills commensurate with this level of certification prior to presenting themselves for evaluation as Instructor Candidates at an Instructor Certification Course (IDW, ICE, or ICW).

## Course Prerequisites

- Acknowledgement of personal compliance with the [ACA Essential Eligibility Criteria \(EEC\)](#).
- Be a current ACA member
- Completion of the appropriate level skills course, assessment course, or equivalent skills
- Completion of an ACA, Rescue III, or similar swiftwater rescue course within the last 3 years

## Course Duration

Combined Instructor Development Workshop (IDW) and Instructor Certification Exam (ICE) - Minimum 5 days (40 hours).

## Course Location / Accessible Venues

Sections of rivers rated class III-IV, in rapids where precise 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**

6 Instructor Candidates : 1 Instructor Trainer; with an additional qualified assistant, the ratio can be 12 : 2. The maximum number of Instructor Candidates permitted is 12.

For additional details, see [SEIC Policy Manual Chapter 6](#).

## **Instructor Trainer**

This certification course may be offered by Level 5: Advanced Whitewater Rafting - Oar (or higher) ACA Instructor Trainers or Instructor Trainer Educators.

## **Complementary Courses**

- Raft Guide Examiner Endorsement
- Level 5: Advanced Whitewater Rafting - Paddle Skills, Assessment, or Certification Course

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The following is a list of the criteria used to evaluate Instructor Candidates. The content and sequence of evaluation is to be adjusted to best fit the participant's needs, class location, time allowance, and be craft appropriate.

## **General Requirements for all ACA Certification Candidates**

- Be at least 18 years old
- Demonstrate general knowledge of [ACA Diversity, Equity, and Inclusion \(DEI\) initiatives](#)
- Successfully complete an Instructor Certification Workshop (IDW and ICE)
- Upon successful completion, register with the [Safety Education and Instruction Council](#)
- Have and maintain first aid and age appropriate CPR
- Demonstrate a general knowledge of paddlesports and the ACA
- Demonstrate the ability to appropriately perform and teach all of the following material, unassisted, in the appropriate venue

## **Certification Maintenance Requirements**

- Teach at least two courses that meet ACA standards within the four-year certification period and properly report the courses using the ACA Course Management System (CMS)
- Complete an Instructor Update, at the highest level of certification, during the four-year certification period
- Maintain ACA membership and SEIC registration annually
- Maintain appropriate CPR and first aid certification for the duration of certification

## **ACA Level 5: Advanced Whitewater Rafting - Oar Instructor Requirements**

It is expected that Instructor Candidates should have advanced rowing skills, including versatility in rowing different types of rafts with different types of frame and oar setups, before presenting themselves for evaluation. This course will include the items listed below:

### **Demonstrate a knowledge of ACA administrative processes:**

- How to register and report a course (with and without insurance)
- An understanding of the ACA Waiver and Release of Liability
- Familiarity with the ACA website and the resources and SEIC policies available

### **Demonstrate a knowledge of and appropriately model teaching and learning theory:**

- Understand multiple methods of teaching and how they impact different learners
- Differentiate instruction targeting different learners
- Use effective teaching methods including appropriate skills progressions when teaching complex skill sets
- Present information effectively, both prepared and impromptu
- Focus on **core principles** rather than specific techniques
- Provide appropriate, specific, and meaningful feedback

## **Demonstrate the following:**

- Positive interpersonal skills to include all items outlined in the ACA SEIC Policy Manual
- Appropriate group management skills including leadership and judgment
- Ability to choose an appropriate venue / class site
- Effectively make documented skill assessments

## **Demonstrate ability to paddle efficiently and comfortably in venue utilizing:**

- Safe and effective body usage: bio-mechanics (body, posture, linkage, and rotation)
- Efficient and effective paddle placement for intended maneuver
- Parts of strokes: CPR (catch, power, recovery), static and dynamic

## **Demonstrate knowledge of all the following topics and the ability to teach one or more of the following topics and skills effectively:**

- Describe and follow safe boating practices: behavior, substance abuse, on water and land etiquette
- Paddling environments
  - Discuss current weather conditions, forecasts, and other environmental factors (water, weather, wind, waves)
    - Water confidence and comfort
  - River classifications
- River etiquette
  - Leave No Trace ethics
  - Efficiency and courtesy during launching and landing
  - Awareness of and respect for private property
  - Courtesy on the water
  - Communicating with other groups

- Use of good judgment
- River stewardship
- Local rules, regulations, and permitting requirements
- Terminology
- Familiarity with the different disciplines of paddlesport and boatmanship
- Raft and equipment
  - Secure rafts to vehicle or trailer: attach raft to rack or trailer using flat cam-straps or rope and suitable knots
  - Rafts: types, parts, materials, nomenclature, and design
  - Frame parts, mounting positions, adjustment, design, oar towers, loading and types
  - Oars: materials, types, parts, lengths for different boats
  - Oar locks: free oars, oar rights, pins and clips and the pros and cons of each
  - Rigging: securing equipment in the raft, minimizing entrapment, boat loading and trim
  - Oar-to-frame-to-boat interface, proper oar spacing, position for ergonomic rowing
  - Life jackets: types, usage, and proper fit
  - Helmets: types, sizing, and proper fit
  - Clothing and footwear suitable for immersion and appropriate to the venue conditions
  - Raft outfitting: bow and stern lines, flip lines, perimeter lines
  - Proper inflation including use of pumps
  - Care of equipment including raft and frame maintenance and repair
- Responsibilities of a boatman with passengers
  - Distribution of passengers - keep clear of oar swing
  - Paddle assist

- Group communication
- Special equipment: coolers, drybags, etc.
- River reading
- Group organization, trip planning, and travel strategies
  - Review elements of a float plan (who, what, when, where, filing practices)
    - Shuttle logistics
  - Sourcing local beta such as river sections, flows, weather, etc. (i.e., online groups, guidebooks, websites, apps, businesses, gauges, etc.)
  - Lead boat, sweep boat, safety boats, spacing, group members with repair kits, first aid kits, and first aid and CPR training
- Proper equipment for single, multi day, and expedition length raft trips
  - Special equipment such as groovers, dry boxes, ammo cans, etc.
- Put-in safety briefing
- Scouting

## **River Dynamics:**

- Currents
- Bends
- Eddies and eddy lines
- Waves, holes, and pillows
- Upstream and downstream Vs, tongues
- Rocks
- Ledges and low head dams (horizon lines)
- Strainers, sieves, undercut rocks or ice
- Manmade hazards

In addition:

- How each of the above changes with river levels

- How each of the above impacts a boat and why

## **Seating and Proper Positioning:**

- Launching and landing
  - Lifting and carrying
  - Stacking
- In the Raft
  - Positions of the frame in a raft: stern mount, center frame, bow frame in catarafts. Frame position changes the pivot point.
  - Seating and proper rowing position
  - Efficient rowing position (use of core muscles)
  - Back and shoulder protection
  - Considerations for rowing full loaded rafts
  - Foot and knee position for effective rowing
  - Movements in the raft: high side, down
  - Protection of self and passengers from oars and entrapment
- Oar
  - How to hold oars
  - Oar Interface: oar towers, oar stops, oar length, frame width, seat height
  - Proper body position for forward, backward and rotational strokes
  - Rest positions while rowing
  - Shipping oars (not pulling in)

## ***Appropriately model all of the following skills. Demonstrate the ability to teach one or more of the following topics and skills:***

- Focus on oar entry, purchase, and exit of water to maximize efficiency
- Forward: use of double stroke and bicycle stroke

- Back: emphasized as power stroke and need for proper body position
- Single oar boat rotation stroked
- Double oar boat rotation strokes
- Stern rudders and bow draw strokes with oar
- Slowing strokes
- Feathering (for open oarlocks)

***Appropriately model all of the following skills. Demonstrate the ability to teach one or more of the following topics and skills:***

- Left turn
- Right turn
- Forward: row in a straight line
- Reverse: reasonably straight line backward
- Stopping raft from a good speed
- Spin: pivot the raft - left and right, stop the spin, single and double oar techniques
- Proper raft angle when entering a rapid/tongue
- Angle adjustment during a rapid
- Proper use of forward stroke versus back stroke in moving water
- Ferries: front and back
- Eddy turns
- Peel-outs
- Spin: pivot the raft - left and right, stop the spin
- Micro eddy use: while running rapids, boat scouting and safety positions
- Surfing: hole and wave (play and maneuver)
- Raft boof
- Strong eddy line play



## Safety & Rescue

- Principles of rescue
  - Rescue priorities: people first, boat, oars, and gear second
    - Group over individuals, rescuer over swimmer
  - Fast and simple to slow and complex
- Communication
  - Paddle, hand, and whistle signals
- Boat flip and recovery (considerations for flip safety and heavy boats)
- Re-entry into the boat
  - Self
  - Assisted
- Swimming in current - defensive and aggressive swimming techniques
  - Preventing foot entrapment
- Boat pin and/or wrap (strong arm, rope/vector)
- Bump, bulldoze, or tow a boat to shore
- Swimming a boat to shore
- Throw rope use and practice
- Appropriate use of rescue and safety gear
  - Rope, webbing, carabiners, anchor systems, etc.
  - Rescue equipment: unique safety considerations while rescue equipment is under load of heavy boat
- 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

This curriculum is managed by the ACA Rafting Committee. To connect with the leadership of this committee, please view the SEIC Committee rosters on [the ACA](#).

website.

## **Hazard Evaluation & Judgment**

### **Self-Awareness and Evaluation**

- Understanding your level of anxiety
- Knowing your personal style and level of risk tolerance
- Awareness of your level of responsibility to the group
- Awareness of the environment and your group
- Realistically knowing your level of skill and personal preparedness

### **Group Evaluation**

- Making decisions based on the skill level and condition of the group

### **Objective Hazards**

- Understanding what objective hazards are
- Differentiate between objective and subjective hazards
- How to deal with objective hazards

### **Subjective Hazards**

- Understanding what subjective hazards are
- Differentiate between subjective and objective hazards
- How to deal with subjective hazards

## **Demonstrate leadership, group management skills, experience and judgment necessary to be a safe, effective instructor**

### **Notes:**

*An ACA Level 5: Advanced Whitewater Rafting - Oar Instructor is expected to be able to demonstrate and teach everything on the Level 5: Skills Course and Level 5: Skills Assessment for their level/craft.*

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