



U.S. Fish & Wildlife Service

# National Conservation Training Center

## Training Announcement

### Functional Framework for Stream Assessment and Restoration

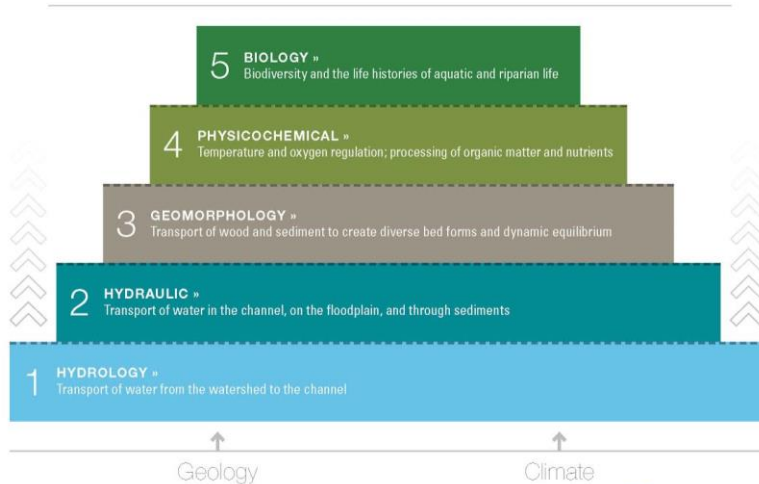
CSP3275

#### Course Description

This course offers a framework for assessing stream functions to individuals involved in stream assessment and restoration/mitigation projects. The framework can be used for pre- and post- restoration conditions on restoration/mitigation sites. The framework can also be used on streams not associated with restoration activities, like a proposed impact site. In this case, the assessment would establish baseline conditions or a description of functions that may be lost due to the permitted impact. In addition to providing functional assessment techniques, this course also provides suggested performance standards where possible and may be used as a template for IRTs when developing stream assessment protocols and performance standards for their stream mitigation Standard Operating Procedures (SOP). A combination of lecture, field sessions, and classroom exercises will provide practical experiences in evaluating stream functions as related to assessment and restoration/mitigation projects.

#### Stream Functions Pyramid

A Guide for Assessing & Restoring Stream Functions » OVERVIEW



#### Objectives

- Provide a hierarchical framework for assessing stream functions. Key functions include hydrology, hydraulics, geomorphology, water quality, and biology are presented.
- Provide example performance standards for key parameters that can be used to directly or indirectly measure a function.
- Use class room exercises to gain understanding and experience on measuring key performance standard parameters.
- Discuss the application of the hierarchical framework in the field, while assessing impaired streams and evaluating completed stream restoration projects
- Discuss how the functional hierarchy can be used to create stream debits and credits for compensatory mitigation.



#### Date

October 24 - 27, 2017

#### Location

National Conservation Training Center  
698 Conservation Way  
Shepherdstown, WV 25443

#### Length

4 days

#### College Credit

2 semester hours

#### Tuition

Through a cooperative agreement with Stream Mechanics, Inc. the U.S. Fish and Wildlife Service may attend this course tuition free at the NCTC workshop. For participants from other agencies and organizations, tuition is \$1250 per person.

#### To Register

FWS/NPS/BLM employees may register online at <http://training.fws.gov> using DOI Learn, the Department of the Interior's Learning Management System. All others must register directly with Stream Mechanics at [www.stream-mechanics.com](http://www.stream-mechanics.com)

#### Availability

Course is offered every other year at the National Conservation Training Center; however Stream Mechanics may schedule workshops at other locations throughout the year.

#### U.S. FWS Contact

Gary Schetrompf, 304/876-7255  
[Gary\\_schetrompf@fws.gov](mailto:Gary_schetrompf@fws.gov)

#### Stream Mechanics Contact

Will Harman, 919-747-9448  
[wharman@stream-mechanics.com](mailto:wharman@stream-mechanics.com)

#### Reasonable Accommodation

The U.S. Fish and Wildlife Service is committed to providing access to this training for all participants. Please direct all requests for sign language interpreting services, close captioning, or other accommodation needs to So Lan Ching, 304-876-7771 or by email at [So\\_Lan\\_Ching@fws.gov](mailto:So_Lan_Ching@fws.gov), TTY 800-877-8339 by close of business Monday, April 7, 2017.