



U.S. Fish & Wildlife Service

National Conservation Training Center

Conserving the Nature of America

CSP3275 - Functional Framework for Stream Assessment and Restoration

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| Course Code | CSP3275 |
| Course Title | Functional Framework for Stream Assessment and Restoration |
| Description | <p>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.</p> <p>Objectives:</p> <ul style="list-style-type: none"> • 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. • Describe methods that can be used to measure key performance standard parameters. • 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. • Provide a case study showing how a functional assessment may be applied to a stream restoration project. <p>Target Audience: Field staff involved in the development and review of stream assessment and restoration/mitigation projects.</p> |
| Delivery Method | Instructor Led |
| Non-FWS Fee | \$0.00 |
| Instructional Hours | 28 |
| Credits/CEUs | 2.0 |
| Course Content Contact | Gary Schetrompf: gary_schetrompf@fws.gov; (304) 876-7255; gary_schetrompf@fws.gov |
| Curriculum Category | Habitat Assessment Restoration and Management |
| Course Frequency | Once per year |
| Registration Link | Register in DOI Talent ** FWS and NPS employees must register onling using DOILearn, (https://doitalent.ibc.doi.gov/) the Department of the Interior's Learning Management System. All others must register directly with Stream Mechanics (www.stream-mechanics.com) |
| DOI Talent Course Type | ILT |
| College Credit Name | Semester Hours |
| College Credit Value | 1 |

Schedule: CSP3275 - Functional Framework for Stream Assessment and Restoration

| Start | End | Location | Session Contact |
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| 10/15/2019 | 10/18/2019 | National Conservation Training Center (NCTC) | sharon_howard@fws.gov |