



U.S. Fish & Wildlife Service

National Conservation Training Center

Conserving the Nature of America

CSP3200 - Stream Habitat Measurement Techniques

Course Code	CSP3200
Course Title	Stream Habitat Measurement Techniques
Description	<p>The purpose of this course is to provide the knowledge and skills required to participate in studies assessing physical habitat characteristics of streams. Techniques learned may be applied to a variety of programs including in-stream flow (e.g., IFIM), monitoring, restoration, habitat quality (e.g., HEP), and fish-habitat relationship studies. Classroom presentations (approximately 45%) are integrated with ample hands-on field activities (approximately 55%). Attributes characterized, measured, or identified include stream regional setting (ecoregion, watershed, hydrologic unit, and physiographic province), basin geomorphic properties, land cover types, hydrology, channel dimensions and roughness, channel structure and pattern, mesohabitat types, discharge, velocity, depth, substrate type and embeddedness, cover, bank condition, and riparian vegetation. Discussions and exercises will address additional topics as site selection, transect and sampling point placement, and reach mapping (cross-sectional, longitudinal, and plan views). From stream reach surveys, participants will complete a comprehensive written habitat assessment and classification for a nearby reach. Participants also will learn to operate equipment used to survey and measure habitat variables.</p> <p>Objectives: Topics include:</p> <ul style="list-style-type: none">• Habitat Scales;• Hydrology;• Stream Reach Surveys and Measurements;• Macrohabitat Identification;• Streamflow;• Substrate;• Cover and Refuge;• Riparian Vegetation;• Streambank and Shoreline Condition;• Classification of Streams and• Reaches. <p>Target Audience: Personnel with minimal stream experience involved with habitat assessment projects.</p>
Delivery Method	Instructor Led
Non-FWS Fee	\$1,195.00
Instructional Hours	36
Credits/CEUs	3.0
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
DOI TALENT Course Type	ILT
College Credit Name	Semester Hours
College Credit Value	2

Schedule: CSP3200 - Stream Habitat Measurement Techniques

Start	End	Session Information	Location	Session Contact
3/18/2019	3/22/2019	Class begins at 8:00 AM on first day. Class ends at Noon on last day.	National Conservation Training Center (NCTC)	Gary Schetrompf (304) 876-7255 gary_schetrompf@fws.gov