



U.S. Fish & Wildlife Service

National Conservation Training Center

Conserving the Nature of America

ALC3191 - Decision Analysis: Tools

Course Code	ALC3191
Course Title	Decision Analysis: Tools
Description	<p>This course is designed for structured decision making practitioners who want to develop their their analytical skills by gaining a greater practical understanding of the most common quantitative methods. It builds on the fundamental principles taught in "Introduction to Structured Decision Making" (ALC 3171), focuses on how to support the "CT" steps of the "ProACT" process, and is a companion advanced course to "Decision Analysis: Elicitation & Facilitation" (ALC 3190). Course content includes: decision trees and utility theory; multi-criteria decision analysis, including eliciting objective weights and dealing with conditional dependence; expected value of information; and analysis of portfolio problems. The course has a substantial hands-on component—every concept is accompanied with guided exercises. Students will also be called upon to apply some of the course concepts to a decision problem in their job context. Background readings will be required in preparation for the course. This course and the entire NCTC SDM curriculum were developed in partnership with USGS.</p> <p>Objectives: At the conclusion of this course, participants should be able to:</p> <ul style="list-style-type: none"> • Identify several common classes of decision problem • Analyze decision tress • Elicit and apply utility function to reflect decision-makers' risk tolerance • Implement multicriteria decision analyses, using the SMART method • Elicit weights on objectives using a variety of alternative methods, including consideration of global vs. local scales for weights • Help a group of experts identify and articulate critical uncertainty • Calculate the expected value of information • Analyze portfolio problems
Delivery Method	Instructor Led
Non-FWS Fee	\$995.00
Instructional Hours	36
Credits/CEUs	3.0
Course Content Contact	Ashley Fortune-Isham: ashley_fortune_isham@fws.gov ; (304) 876-7361; ashley_fortune_isham@fws.gov
Curriculum Category	Decision Analysis
Course Frequency	Every other year
Registration Link	Register in DOI Talent
DOI TALENT Course Type	ILT
College Credit Name	Semester Hours
College Credit Value	2

Schedule: ALC3191 - Decision Analysis: Tools

Start	End	Location	Session Contact
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4/8/2019	4/12/2019	National Conservation Training Center (NCTC)	brenda_hooper@fws.gov
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