NORTHWEST ENVIRONMENTAL TRAINING CENTER

CERTIFICATE OF COMPLETION

This certifies that

Alan Mainwaring

Has successfully completed the following professional training workshop

Backpack Electrofishing and Fish Handling Techniques

Effective Methods for Maximizing Fish Capture and Survival

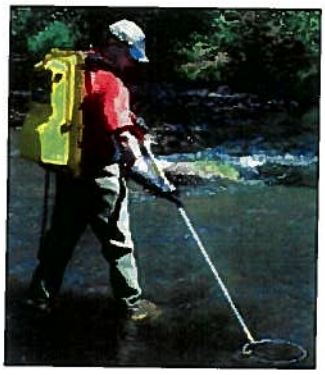
Course I.D. BIO-407

April 5 - 6, 2006, Seattle, WA

And has earned 1.5 continuing education units (CEU's) for completing 15 hours of course study

Erick McWayne, Executive Director
Northwest Environmental Training Center

The Northwest Environmental Training Center Presents:



Backpack Electrofishing and Fish Handling Techniques -

Effective Methods for Maximizing Fish Capture and Survival

Course ID: BIO-407
April 5 - 6, 2006, 8:30 A.M. to 5 P.M. (2 Days)
Northwest Environmental Training Center Headquarters
650 S. Orcas Street, Suite 220, Seattle, WA 98108

Instructors: Hans Berge, King County Department of Natural Resources and Parks; and Jim Shannon, M.S., Taylor Associates

Course Description

Electrofishing is an effective way to sample freshwater fish populations. However, electrofishing may cause fish injury or mortality. The proper balance between efficient sampling and minimal adverse effects to fish is achieved through use of proper field techniques and understanding the principles of electricity. This course has been audited by the National Marine Fisheries Service (NMFS) and meets their training requirements for electrofishing field staff. This course will provide a one-day overview of electrofishing principles and practices and one day of field experience. On April 5, participants will spend the day in the classroom learning electrofishing principles and science. On April 6, participants will spend the day in the field learning backpack electrofisher techniques at a nearby stream. In the afternoon of April 6, we will process the results of the field session, review the essential concepts and techniques of electrofishing, and answer any final questions.

Intended Audience: This course is intended for biologist, field personnel, and other professionals seeking an improved understanding of the principles and techniques of electrofishing.

About the Instructors

Mr. Hans Berge has worked with King County Department of Natural Resources and Parks since 1999. Prior to coming to King County, he worked with the USDA Forest Service for 4 years, studying the distribution of interior cutthroat trout, bull trout, brook trout, chinook salmon, steelhead, and their habitats. He has extensive electrofishing experience on large rivers and small streams. He holds a B.S. degree from Utah State University in Fisheries and Wildlife and is completing his M.S. Degree from the University of Washington's School of Fisheries and Aquatic Sciences.

Mr. James Shannon is a fisheries biologist with expertise in freshwater and nearshore ecology; and restoration of marine, estuarine, and freshwater habitats. Mr. Shannon is currently with Taylor Associates. Over the past several years, his work has focused on fish relocation at freshwater habitat restoration projects, conducting nearshore and freshwater fisheries studies, and performing snorkel and redd/spawner surveys for salmonids throughout Puget Sound. Before joining Taylor Associates Inc. in 1998, Mr. Shannon worked for the Washington Department of Fish and Wildlife. Mr. Shannon has developed and presented numerous electrofishing workshops and presented at conferences throughout the Pacific Northwest.