WHO SHOULD ATTEND / WHAT YOU WILL LEARN

Everyone involved in sampling activities or those using data from sampling events to make decisions will benefit from this course.

Including, but not limited to:

- PROJECT MANAGERS - FIELD SAMPLERS
- QA/QC PROFESSIONALS - SAMPLING PLAN DESIGNERS
- ATTORNEYS - CHEMISTS - ENGINEERS
- GUIDANCE DOCUMENT DEVELOPERS - MANAGERS
- REGULATORS - ENVIRONMENTAL COORDINATORS

During this course topics to be covered include:

- Where sampling errors originate and how to mitigate them
- How to design sampling plans to achieve project goals
- Sample representativeness - what it really means
- How lab subsampling can impact error
- How to sample heterogeneous materials
- How to determine whether you have a sampling problem
- How to make your sampling defensible
- How to take the fewest samples to meet your objective

ABOUT THE INSTRUCTOR

Charles Ramsey has a BA in Chemistry from the University of Denver and a MS in Environmental Science from the Colorado School of Mines. He is founder and President of EnviroStat, Inc., a company providing specialized training in the areas of field (bulk) sampling, laboratory subsampling, statistics and quality control. A recognized expert in the areas of sampling and statistics, Mr. Ramsey has been presenting courses for nearly a decade and has served as an expert witness in numerous court cases. He was also the manager of environmental compliance for Coors Brewing Company’s Glass Business Unit.

Mr. Ramsey’s experience includes seven years with the National Enforcement Investigations Center (NEIC) of USEPA. The NEIC is the EPA’s principal source of expertise involving civil and criminal litigation support for complex investigations having national and/or significant regional environmental impact. While with the EPA, Mr. Ramsey provided sampling and statistical expertise on all major environmental regulations for the NEIC and a variety of other organizations including the Department of Justice, FBI, State Attorneys General, regional EPA offices, state environmental departments and non-governmental organizations. Project management experience includes:

- DESIGNED SAMPLING PLANS -
- DEVELOPED PROJECT SPECIFIC QA/QC -
- PERFORMED AND DIRECTED SAMPLING ACTIVITIES -
- DEVELOPED IN-HOUSE SAMPLING AND SUBSAMPLING PROCEDURES -
- PERFORMED LABORATORY ANALYSIS -
- STATISTICALLY EVALUATED DATA DETERMINING WHETHER PROJECT GOALS WERE ACHIEVED -

YOUR DECISIONS ARE ONLY AS GOOD AS YOUR SAMPLES

CONTENT / FURTHER INFORMATION

Charles Ramsey
Tel: 970-689-5700  Fax: 970-229-9977
email: chuck@envirostat.org  www.envirostat.org