

AGENDA Day 3

Managing Uncertainty with Systematic Planning: (Developing Defensible Sample Designs for Environmental Decision-Making)

8:00 AM to 5:00 PM

8:00 AM – 8:15 AM **Module 12: Introduction, Objectives, & Agenda**

Presenter: Sebastian Tindall

This module briefly discusses the DOE and EPA missions to institutionalize a Systematic Planning Process throughout the DOE complex and provides an overview and presents the day's agenda and the objectives of each of today's 9 modules and 2 exercises.

8:15 AM – 8:45 PM **Module 13: The Systematic Planning Process (Step 5)**

Presenter: Sebastian Tindall

This module presents the Planning Process in detail. Step 5 is covered in this Module.

8:45 AM – 9:00 AM **Exercise 5 – Hypothesis Testing for Clean & Dirty Sites**

Presenter: Sebastian Tindall

Students conduct hypothesis test on samples of beads using the 95% UCL as the test statistic. Here populations from a clean and a dirty site will be tested. Computer simulations illustrate this exercise.

9:00 AM – 10:00 AM **Module 14: The Systematic Planning Process (Step 6)**

Presenter: Sebastian Tindall

The presentation of the Planning Process, in detail, is continued. Step 6 is covered in this session.

10:00 AM – 10:15 AM **Morning Break**

10:15 AM – 11:30 AM **Module 15: The Systematic Planning Process (Step 7)**

Presenter: Sebastian Tindall

The presentation of the Planning Process, in detail, is continued. Step 7 is covered in this session.

11:30 AM – 11:45 AM **Module 16: Discussion: The Planning Process**

Presenter: Sebastian Tindall

Students will be given the opportunity to discuss their impressions, questions, and concerns regarding the Planning Process.

11:45 AM – 1:00 PM **LUNCH BREAK**

1:00 PM – 1:45 PM **Module 17: Systematic Planning Process: Case Study – Step 1**

Presenter: Sebastian Tindall

A case study based on the Planning Process is presented. Step 1 is covered in this module.

1:45 PM – 2:15 PM **Module 18: Systematic Planning Process: Case Study – Steps 2, 3, 4, 5, & 6**

Presenter: Sebastian Tindall

A case study based on the Planning Process is presented. Steps 2-6 are covered in this module.

2:15 PM – 2:30 PM

Afternoon Break

2:30 PM – 3:30 PM

Module 19: Systematic Planning Process: Case Study – Step 7

Presenter: Sebastian Tindall

A case study based on the Planning Process is presented. Step 7 is covered in this module

3:30 PM – 4:30 PM

Module 20: Introduction to Visual Software: VSP, VSS, VDQA, ProUCL.

Presenter: Sebastian Tindall

The development of a sample plan involves evaluating trade-offs between decision error, sampling costs, and remediation costs. Visual Sample Plan software provides a quick and easy way to visualize the impacts of various sample designs. Visual Sample Size, Visual Data Quality Assessment (VDQA) and ProUCL will be demonstrated.

4:30 PM – 4:45 PM

Module 21: QE3C & DOE Systematic Planning Web Pages

Presenter: Sebastian Tindall

This module takes the class on a tour of the QE3C & DOE Web Pages, displaying and demonstrating the many materials and tools developed to support the Planning Process.

4:45 PM – 4:55 PM

Module 22: Closing Remarks

Presenter: Sebastian Tindall

Key points to remember are summarized in this module. They all highlight how the Planning Process helps you create order out of the chaos of regulations and requirements that surround collecting and analyzing environmental data and lead you to defensible decision-making.