

Fundamentals of Environmental Management

Safety Management 580

Course Objectives: Upon Completion of this course, the student will be able to demonstrate their knowledge of the principals of environmental management. The student will be able to develop basic compliance programs for various environmental regulations (Clean Air Act, Resource Conservation and Recovery Act, Clean Water Act, etc.). The student will have a general understanding of the inspection process utilized by the United States Environmental Protection Agency for compliance monitoring. Finally, the student will be able to develop a compliance schedule based on the various levels of enforcement utilized by the USEPA.

Instructor: Dr. John C. Hando
Risk Assessor and Emergency Response Coordinator
West Virginia University
304 293-5799
304 680-2165
john.hando@mail.wvu.edu

Format: Lecture with some internet work.
Thursday Evening 1900 – 2145.

Text: No textbook is required.

Exams: There will be five exams worth 15% each.

Reports: There will be 5 reports worth 5% each based on cases studies discussed in class.

Grading: A = 89.5% - 100%; B = 79.5% - 89.4%; C = 69.5% - 79.4%; D = 59.5% - 69.4%;
F = < 59.4%

Lecture Schedule

This syllabus is only a guide for the students' convenience. The lecture schedule is approximate and every effort will be made to follow it.

Week One:	Introduction, Governmental Process, Assignment One
Week Two:	Basic Toxicology, Environmental Compartments, Exam One
Week Three:	Inspection Process, Development of a Compliance Plan, Assignment Two
Week Four:	Hazardous Waste Management, Case Study
Week Five:	Exam Two, Case Study
Week Six:	Clean Air Act, Storm Water Management
Week Seven:	Brownfield and Voluntary Remediation, Exam Three
Week Eight:	Phase I and Phase II Environmental Audits, Used Oil, Assignment Three
Week Nine:	Clean Water Act, Underground Storage Tanks
Week Ten:	Case Study
Week Eleven:	Surface Mining Reclamation, Exam Four
Week Twelve:	Criminal Liability, Case Study, Assignment Four
Week Thirteen:	DOT Hazardous Material Security Training, Case Study
Week Fourteen:	Comprehensive Environmental Response, Compensation and Liability Act
Week Fifteen:	Waste Minimization, Treatment Technologies, Assignment Five
Week Sixteen:	Exam Five