

## Environmental Regulations Overview (EPCT 1305)



**Credit:** 3 semester credit hours (3:3:0)

**Prerequisite:** Pass the writing portion of COMPASS or other accepted testing instrument

**Co-requisite:** CNBT 2342

### Course Description

An introduction to the history of the environmental movement, including basic requirements for compliance with the environmental regulations.

### Required Textbook and Materials

1. Accident Prevention Manual for Business and Industry – Environmental  
By the National Safety Council, 2<sup>nd</sup> Edition
  - a. ISBN number is 978-0-87912-209-6

### Course Objectives

Upon completion of the course the student will be able to:

1. Demonstrate knowledge of the history of the environmental regulation movement (Scans: C1.5, C3.4, C5.5, C7.5, C9.4, C12.4).
2. Demonstrate knowledge of agencies that administer environmental regulations (Scans: C14.4, C15.4, C18.4, F1.5, F3.5, F4.4).
3. Demonstrate knowledge of basic requirements of environmental compliance (Scans: F6.5, F9.4, F11.3, F13.5, F16.4, F17.5).

### SCANS Skills and Competencies

Beginning in the late 1980's, the U.S. Department of Labor Secretary's Commission on Achieving Necessary Skills (SCANS) conducted extensive research and interviews with business owners, union leaders, supervisors, and laborers in a wide variety of work settings to determine what knowledge workers needed in order to perform well on a job. In 1991 the Commission announced its findings in *What Work Requires in Schools*. In its research, the Commission determined that "workplace know-how" consists of two elements: foundation skills and workplace competencies.

### Course Outline

- |   |   |
|---|---|
| A. Welcome to LIT:                      | 2. Emerging international environmental standards |
| 1. Introduction of faculty and students | 3. Future environmental trends                    |
| 2. Expectations                         | C. Environmental Compliance at Federal Facilities |
| 3. Policies                             | 1. Enforcement actions                            |
| B. EPA Standards Overview               | 2. Media statutes                                 |
| 1. U.S. EPA standards                   | 3. Federal liability                              |

## EPCT 1305

### Course Syllabus

- 4. State enforcement
- D. Clean Water Act
  - 1. National pollutant discharge elimination system
  - 2. Permits
  - 3. Water quality standards
  - 4. Discharge monitoring reports
  - 5. 1987 amendments
  - 6. Water toxics
  - 7. Stormwater
- E. Oil Pollution Act of 1990
  - 1. Pollution prevention
  - 2. Penalties
  - 3. Reporting
- F. Safe Drinking Water Act
  - 1. Amendments
  - 2. Groundwater rule
  - 3. Microbial and disinfection by-product rules
- G. Toxic Substance Control Act
  - 1. Definitions and explanations
  - 2. Compliance
  - 3. Forms
  - 4. HAZWOPER
- H. Superfund Amendments and Reauthorization Act
  - 1. Innocent land owner provisions of SARA
  - 2. The value of standards
  - 3. Standards-setting organizations
- I. Pollution Prevention-Treatment and Technologies
  - 1. Soil washing
  - 2. Solvent extraction
  - 3. Dechlorination
  - 4. Bioremediation
- J. Emergency Planning and Community Right-to-Know
  - 1. Spill response forms
  - 2. Public access to facility information
  - 3. Penalties
  - 4. Medical wastes
  - 5. Radioactive wastes
- K. PCB's
  - 1. Storage
  - 2. Disposal
  - 3. Cleanup requirements
- L. Hierarchy of Waste Management
  - 1. Source reduction
  - 2. Recovery/use
  - 3. Waste exchange
  - 4. Treatment/destruction/disposal
- M. Greenhouse Gas Emissions and Global Warming
  - 1. Historical background
  - 2. Scientific background
  - 3. Climate models
- N. Integrating Manufacturing and Environmental Issues
  - 1. Planning and organization
  - 2. Baseline characterization of the facility

### Grade Scale

- A = 90 - 100
- B = 80 - 89
- C = 70 - 79
- D = 60 - 69
- F = less than 60

### Course Evaluation

Final grades will be calculated according to the following criteria:

- 1. Class Attendance                      5%
- 2. Four Tests                                15%

**EPCT 1305**  
Course Syllabus

3. Comprehensive Final 35%

Make-up will be given only for extreme circumstances, as approved by the instructor, and must be taken on the next scheduled class period.

**Course Requirements**

1. Homework is a course requirement and is expected to be complete by the next class meeting.
2. Participation in classroom discussions/activities is also required.

**Course Policies**

1. It is the responsibility of students to obtain notes for any class periods missed.
2. No food, drinks or tobacco products consumed or used in class.
3. Do not bring children to class.

**Disabilities Statement**

The Americans with Disabilities Act of 1992 and Section 504 of the Rehabilitation Act of 1973 are federal anti-discrimination status that provides comprehensive civil rights for persons with disabilities. Among other things, these statues require that all students with documented disabilities be guaranteed a learning environment that provides for reasonable accommodations for their disabilities. If you believe you have a disability requiring an accommodation, please contact the Special Populations Coordinator, at (409)880-1737 or visit office located in the Cecil Beeson Building, Rm 116B.

**Course Schedule**

<b>Week of</b>	<b>Topic</b>	<b>Reference</b>
Week 1	Introduction, Overview, Legislative Framework	pp. 14-24
Week 2	Legislative Framework, Clean Water Act	pp. 63-70
Week 3	Clean Water Act, Oil Pollution Act of 1990	pp.65-70
Week 4	Test I	
Week 5	Safe Drinking Water Act, Toxic Substances Control Act	pp. 62-65
Week 6	TSCA, Superfund Amendments and Reauthorization Act	pp. 159, 231
Week 7	CERCLA	pp. 60
Week 8	Test II	
Week 9	Emergency Planning and Community Right-to Know Act	pp.61
Week 10	Resource Conservation and Recovery Act	pp.58-60
Week 11	Resource Conservation and Recovery Act	
Week 12	Test III	
Week 13	Clean Air Act	pp. 207-209
Week 14	Clean Air Act	pp. 252, 259
Week 15	Test IV and Review for Final	
Week 16	Final Exam	

**EPCT 1305**  
Course Syllabus

**Contact Information:**

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