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**COURSE PREFIX/NUMBER:** EVT 206  
**COURSE TITLE:** Introduction to Environmental Compliance  
**LECTURE HOURS PER WEEK:** 3.0  
**CREDIT HOURS PER SEMESTER:** 3.0

[Distance Learning Attendance/VA Statement](#)  
[Textbook Information](#)

### **COURSE DESCRIPTION**

This course covers an introduction to regulatory concepts and requirements for compliance with environmental regulations by governmental and non-governmental entities.

### **COURSE COMPETENCIES/PERFORMANCE OBJECTIVES**

The student will be provided with instruction and appropriate supporting materials to develop knowledge of environmental protection concepts, issues and regulatory requirements. Upon successful completion of this course, the student should be able to:

#### **Module 1: Introduction to the Environmental Movement and Environmental Regulation in the U.S.**

- Describe the development of the environmental movement and environmental regulatory system in the US
- Identify Federal and State regulatory agencies that regulate environmental impact-producing activities in South Carolina
- Identify important non-governmental organizations that may be involved in environmental impact issues in South Carolina
- Discuss the major sources of pollution from construction, industrial or other sources that have potential impacts on environmental systems and human health

#### **Module 2: Development and Adoption of U.S. Environmental Laws and Regulations**

- Describe the processes by which environmental laws and regulations are developed and adopted at the Federal and State levels.
- Identify the major Federal and State laws that control environmental impact-associated activities in the US and South Carolina.
- Discuss the relationships among environmental laws, implementing regulations and agency guidance.
- Locate applicable Federal and State environmental laws and regulations using the Federal Register, the U.S. Code, the Code of Federal Regulations or the State Registers and Administrative Codes
- **Module 3: Review of Scientific Concepts Related to Environmental Impacts and Regulation**
- Describe major types of environmental impacts pollutant discharges can have in terrestrial and aquatic ecosystems
- Discuss major ecological processes that are related to environmental impacts of specific types of pollutants and discharges
- Discuss major types of human health impacts associated with pollutant discharges

#### **Module 4: Air Quality**

- Describe the basic provisions of the Clean Air Act and its amendments
- Describe the roles of Federal and State agencies in implementation and enforcement of provisions of the Clean Air Act
- Describe the process of obtaining required construction and operating permits for an emitting source under various situations
- Describe requirements for compliance emissions testing and data reporting
- Describe technologies available for control of gaseous and particulate air pollutants

#### **Module 5: Control of Water Pollution, Safe Drinking Water and Related Topics**

- Describe the basic provisions of the Clean Water Act and its amendments
- Describe the roles of Federal and State agencies in implementation and enforcement of provisions of the Clean Water Act
- Describe the requirements for construction and operating permits for wastewater treatment facilities
- Describe the requirements for obtaining NPDES permits for wastewater- and storm water discharging facilities
- Describe requirements for wastewater and storm water discharge testing and data reporting
- Describe technologies available for control of pollutant discharges in wastewater and storm water

#### **Module 6: Regulation of Hazardous and Non-Hazardous Solid Wastes**

- Describe the basic provisions of RCRA and its amendments
- Describe the roles of Federal, State and Local regulatory and responder agencies in control of handling, storage, transport and control of releases of hazardous wastes
- Define and distinguish among solid, hazardous and non-hazardous wastes
- Identify facilities that are subject to management under applicable hazardous waste generator categories
- Describe requirements for handling, storage, treatment and disposal of hazardous wastes
- Prepare a hazardous waste shipping manifest and describe the labeling and manifesting requirements for transporting hazardous wastes
- Describe requirements for management of underground storage tanks
- Describe the intent and requirements for a Facility Contingency Plan
- Discuss the objectives of CERCLA, SARA and the National Contingency Plan in remedial cleanup of hazardous waste sites
- Discuss requirements for control of hazardous chemical releases under EPCRA

#### **Module 7: Protection of Public and Worker Health and Safety**

- Discuss the role of OSHA in protecting the health of workers through maintenance of a safe working environment
- Describe OSHA requirements for maintenance of records on safety plans, injuries and illnesses related to on-the-job activities
- Describe OSHA mandated health and safety training requirements
- Identify various classes of materials that constitute physical, chemical or biological hazards and relate their properties to their specific hazards
- Discuss workplace hazard communication requirements, including use of labeling and employee training
- Obtain and retrieve basic information about hazardous chemicals from Material Safety Data Sheets
- Describe appropriate emergency response procedures and reporting requirements for chemical spills or releases

## **Module 8: Survey of Other Environmental Laws and Regulations**

- Identify projects that would require preparation of an Environmental Impact Statement
- Describe the factors considered in Environmental Assessments and Environmental Impact Statements
- Describe the general requirements for registration, use, storage and disposal of pesticides
- Describe categories of contaminants subject to control in public drinking water Systems
- Describe requirements for use, storage and disposal of PCB's under TSCA

## **MINIMAL STANDARDS**

Minimal standards of performance for course competencies are indicated by achieving a 60 percent accuracy level on all evaluation instruments used in the course performance evaluation strategy.

## **COURSE REQUIREMENTS**

### **Attendance Policy**

Students are responsible for attending class meetings in the course and for completion of all reading and written assignments made in all classes. If a student is absent from a class meeting, it is the student's responsibility to obtain and complete any assignment that may have been made in the missed meeting. Students who are absent from more than 10 percent of the total contact class hours may be withdrawn from the course in accordance with the York Technical College attendance policy. Therefore, since this course has a total of 48 contact hours, any student who is absent for a cumulative total of 5 hours may be withdrawn regardless of the student's status relative to other performance measures.

### **Withdrawal from A Course**

A student may withdraw from a course after the drop/add period until midterm with a grade of "W" (withdrawn). Students who withdraw after midterm may receive a grade of "W" at the discretion of the instructor if performance has been satisfactory to the point of withdrawal. Otherwise, such withdrawals will receive a grade of "WF."

### **Student Conduct**

Students are required to conform to all conduct codes as specified in the York Technical College Handbook and Catalog. In addition, any incidents of cheating or other academic dishonesty shall result in mandatory withdrawal of the student from the course, assignment of a grade of "F," and possible further disciplinary action as appropriate.

## **EVALUATION STRATEGIES/GRADING**

Grades will be determined as described below. All competencies will be evaluated with a minimum of four one-hour exams given at intervals during the course (see below), plus a comprehensive final exam at the completion of the course. Each hour exam will count 20 percent of the course grade and the final exam will count 15 percent. In-class pop quizzes or oral quizzes will determine the final five percent of the grade. Certain competencies, at the discretion of the instructor, may be further evaluated through homework assignments, written reports or other appropriate instruments. The grading scale for the course will be as follows:

Test 1 Modules 1 & 2	20% of course grade
Test 2 Modules 3 & 4	20% of course grade
Test 3 Modules 5 & 6	20% of course grade
Test 4 Modules 7 & 8	20% of course grade
Quizzes, homework, written reports, etc.	5% of course grade
Final Exam	15% of course grade
Total	100%

A 90 – 100  
 B 80 – 89  
 C 70 – 79  
 D 60 – 69  
 F Below 60

**ENTRY LEVEL SKILLS:** NONE

**PREREQUISITES:** NONE

**CO-REQUISITES:** NONE

**Disabilities Statement:** Any student who feels s/he may need an accommodation based on the impact of a disability should contact the Special Resources Offices (SR) at 803-327-8007 in the 300 area of Student Services. The SRO coordinates reasonable accommodations for students with documented disabilities.

**TOPIC/CONTENT OUTLINE**

History and Background of Environmental Regulation  
 Federal and State Environmental Laws, Regulations and Regulatory Frameworks  
 Environmental Science Principles  
 Air Quality Laws and Regulations  
 Water Quality Laws and Regulations  
 Solid and Hazardous Waste Laws and Regulations  
 Human Health Issues and OSHA Regulations

**Module 1: Introduction to the Environmental Movement and Environmental Regulation in the U.S.**

Development, Conservation, Preservation and Environmentalism  
 Private Enterprise  
 Federal and State Agencies  
 Non-Governmental Organizations and Activities  
 Preservation and Land Use  
 Environmental Protection Laws and Regulations  
 Pollution  
 Waste Disposal  
 Environmental Impacts  
 Human Health Impacts

**Module 2: Development and Adoption of U.S. Environmental Laws and Regulations**

Laws, Policies and Regulations  
 Laws and Legislation at the Federal Level

Publication of Proposed and Enacted Laws  
Implementation of Laws  
State Laws and Regulations – North and South Carolina  
Agency Publications  
Locating Laws, Regulations and Documents

### **Module 3: Review of Scientific Concepts Related to Environmental Impacts and Regulation**

Species, Adaptation and Evolution  
Organisms and Populations  
Habitat  
Ecosystems and Diversity  
Pollution and Pollutants  
Metabolism  
Biodegradation  
Biomagnification  
Toxicity  
Carcinogenicity  
Dose-Response Relationships  
Surface Waters  
Ground waters  
Water Quality  
Oxygen Demand and Pollutant Loadings  
Air Quality  
Soils, Sediment and Sediment Quality  
Radiation

### **Module 4: Air Quality**

Air Quality, Air Quality Standards and Pollutant Emissions  
The Clean Air Act and Its Amendments  
Regulatory Provisions  
Permits  
Risk Management Plans  
Air Quality and Emissions Sampling  
Dispersion Modeling  
Emissions Control Technologies

### **Module 5: Control of Water Pollution, Safe Drinking Water and Related Topics**

Control of Water Pollution, Safe Drinking Water and Related Topics  
Wastewater and Discharges  
Clean Water Act  
Implementing Regulations - 40 CFR 110-140  
Controlled Activities Under the CWA  
Wastewater Discharges to Receiving Waters and Permit  
Wastewater Discharges to Municipal POTW's and Pre-Treatment  
The NPDES System and Permits  
Cooling Water Intakes and Discharges  
Storm water Discharges  
Safe Drinking Water Act

**Module 6: Regulation of Hazardous and Non-Hazardous Solid Wastes**

Solid Wastes and Hazardous Wastes

Solid and Hazardous Waste Handling, Storage and Disposal Issues

The Resource Conservation and Recovery Act

RCRA Implementing Regulations

CERCLA, SARA and the NCP

Solid Waste

Hazardous Waste

Hazardous Waste Generators

Requirements for Hazardous Waste Generators

Hazardous Waste Accumulation

Special Requirements for Tank Management

Shipping and Handling Requirements

Spill and Release Preparedness

Facility Contingency Plan

Treatment, Storage and Disposal Facility Requirements

Personnel Training Requirements

Waste Minimization

Waste (Used) Oil Management

Universal Waste Management

Underground Storage Tanks

Aboveground Storage Tanks

**Module 7: Protection of Public and Worker Health and Safety**

OSHA regulations

Process Safety Management

Asbestos Management

Lead Abatement

**Module 8: Survey of Other Environmental Laws and Regulations**

Survey of Other Environmental Laws and Regulations

National Environmental Policy Act

Safe Drinking Water Act

Toxic Substances Control Act

Federal Insecticide, Fungicide and Rodenticide Act

Revised: July 2003