

CENTER FOR INNOVATIVE TECHNOLOGIES
MASTER COURSE DOCUMENT

EVT 187 Materials Transportation Safety and Security

Course Description: A course on safety and security during the transport of hazardous substances. Topics include: Hazardous Materials Transportation Act, Resource Conservation and Recovery Act, Transportation Security Administration, aviation security, and shipping protocols. Students provide transportation to off-campus field trips.

Prerequisites(s): EVT 105

Corequisite(s): No corequisite

Lecture Hours: 1	Lab Hours: 2	Credit Hours: 2
Lab Fee: 70	Supplemental Fee: 0	Purpose:
<input type="checkbox"/> Transfer Assurance Guide Course (TAG)		<input type="checkbox"/> Transfer Module Course (TM)
Course Format: Lec/Lab		Grading: A/B/C/D/F/I
Delivery Method: <input type="checkbox"/> Web <input type="checkbox"/> Hybrid <input checked="" type="checkbox"/> Classroom		
Semesters Offered: <input type="checkbox"/> Fall <input type="checkbox"/> Spring <input checked="" type="checkbox"/> Summer		

Course Primary Text:

Title: Materials to be provided by the instructor	Edition:
Author(s):	
Publisher:	

Supplemental Materials:

Handouts
Emergency Response Guide

Course Outcomes:

1	EVT Students will apply knowledge, techniques, skills and modern tools of mathematics, science, engineering, and technology to solve well-defined environmental engineering problems.
2	EVT Students will design solutions for well-defined environmental engineering technology problems and assist with the engineering design of systems, components, or processes appropriate to the discipline.
3	EVT Students will apply written, oral and graphical communication in well-defined technical and non-technical environments, while identifying and using appropriate technical literature.
4	EVT Students will perform standard tests, measurements and experiments then analyze and interpret the results.
5	EVT Students will perform effectively as a member of a technical team.

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Course Topics:

Week 1	DOT and EPA Hazardous Material Regulations, Manifesting, Emergency Response Guide
Week 2	Placarding, Packaging, Truck Shipping
Week 3	Maritime Security Regulations and Best Practices
Week 4	Airline Security Regulations and Best Practices
Week 5	Rail Security Regulations and Best Practices
Week 6	Field Trip to CVG / Speaker
Week 7	ICS for Transportation Incidents
Week 8	MID-TERM
Week 9	Coast Guard Field Trip / Speaker
Week 10	Railroad
Week 11	Transportation Security Administration (DHS) / Speaker
Week 12	Hazardous Materials
Week 13	Hazardous Materials on the Highway
Week 14	Presentations and Review
Week 15	Final Exam

Methods of Evaluation/Assessment

- ☐ Formative: ☐ Summative

List assessment activities (e.g. quizzes, discussions, essays, research papers, debates, oral presentations, exams):

Quizzes
Discussions
Speakers
Field Trips
Research Paper

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Oral Presentation
Exams

Course Keeper: Barbara Ann Browne

Date Completed: 07/07/20