

# Course Syllabus

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## Course Description

This course presents the engineering principles for the selection and design of exposure controls to protect people from chemical, physical and biological agents. The course is intended for graduate students in exposure sciences, occupational health, engineering, and environmental health. The class is broadly organized around modules on the hierarchy of controls, and points of control applied to sources, pathways and receptors. Case study exercises are used to illustrate the application of control techniques in real situations, and integrate the various approaches from the lecture material.

The extended content session (1hr/week, 1 credit) provides more in-depth material related to the use of local exhaust ventilation (LEV) for source controls, particularly in occupational settings. This session expands content on LEV design, and includes material on hoods, air cleaners and fan selection. Students will complete an assignment in which they design a two-branch ventilation system. Students in the regular section (3 credits) receive instruction in the applications of local exhaust hoods for source control, but not in the design of LEV systems.

## Learning Objectives

At the conclusion of this course, students will be able to:

1. Apply hazard ranking and banding strategies to workplace and environmental exposure scenarios
2. Name Federal and State regulation authorities and requirements related to human exposures
3. Compute exposure estimates for well-mixed rooms involving dilution ventilation and constant inputs
4. Describe HVAC components used for indoor air quality and infection control in health care settings
5. Assess the air flow characteristics of a ventilation system and apply this data for system diagnostics
6. Select the appropriate type of local exhaust hood for controlling workplace exposures
7. Describe criteria for selecting chemical or biological protective clothing
8. Describe criteria for selecting protective equipment for physical agents such as noise or laser light
9. List the elements and evaluation of a comprehensive respiratory protection program
10. Describe the requirements for inventory control and chemical hygiene for hazardous materials

## Additional Ventilation Section Learning Objectives:

1. Compute exposure estimates for a dilution ventilation situation with variable input conditions.
2. Explain principles of fluid mechanics that apply to flow of air or liquids in building ducting and piping systems; describe fluid measurements in terms of pressure drop, flow rate, and velocity.
3. Estimate friction losses for flow through ducts using standard tables.
4. Specify the components of a single-branch local exhaust ventilation system.
5. Specify the components and fan needs of a two branch local exhaust ventilation system.

## **Textbooks & Study Resources (Books on reserve at Health Sciences Library).**

- McDermot H, **Ventilation for Contamination Control** ACGIH Publications 2001
- American Conference of Governmental Industrial Hygienists. Committee on Industrial Ventilation. (2001). **Industrial Ventilation : A Manual of Recommended Practice**. Cincinnati, Ohio: American Conference of Governmental Industrial Hygienists.

## **Course Grading Policy**

Weekly reading assignments will be posted on the canvas website.

Students are responsible for submitting assignments on time and for class readings.

Assigned discussion will be graded for both content and participation.

### **The final grade consists of the following components:**

- Short Assignments (4) + Graded discussion (1) = 50%
- Ventilation lab exercise written report = 10%
- Final project & Case study (individual write up, 30% + group presentation, 10%) = 40%

## **Classroom Climate**

The UW School of Public Health seeks to ensure all students are fully included in each course. We strive to create an environment that reflects community and mutual caring. We encourage students with concerns about classroom climate to talk to your instructor, your advisor, a member of the departmental or SPH Diversity Committee and/or the program director.

## **Access and Accommodations**

Your experience in this class is important to me. If you have already established accommodations with Disability Resources for Students (DRS), please communicate your approved accommodations to me at your earliest convenience so we can discuss your needs in this course.

If you have not yet established services through DRS, but have a temporary health condition or permanent disability that requires accommodations (conditions include but not limited to; mental health, attention-related, learning, vision, hearing, physical or health impacts), you are welcome to contact DRS at 206-543-8924 or uwdrs@uw.edu or [disability.uw.edu \(http://depts.washington.edu/uwdrs/\)](http://depts.washington.edu/uwdrs/). DRS offers resources and coordinates reasonable accommodations for students with disabilities and/or temporary health conditions. Reasonable accommodations are established through an interactive process between you, your instructor(s) and DRS. It is the policy and practice of the University of Washington to create inclusive and accessible learning environments consistent with federal and state law.

## **Religious Accommodations**

Washington state law requires that UW develop a policy for accommodation of student absences or significant hardship due to reasons of faith or conscience, or for organized religious activities. The UW's policy, including more information about how to request an accommodation, is available at [Religious](#)






[Accommodations Policy \(https://registrar.washington.edu/staffandfaculty/religious-accommodations-policy/\)](https://registrar.washington.edu/staffandfaculty/religious-accommodations-policy/). Accommodations must be requested within the first two weeks of this course using [the Religious Accommodations Request form \(https://registrar.washington.edu/students/religious-accommodations-request/\)](https://registrar.washington.edu/students/religious-accommodations-request/).





## Academic Integrity









Students at the University of Washington (UW) are expected to maintain the highest standards of academic conduct, professional honesty, and personal integrity.










The UW School of Public Health (SPH) is committed to upholding standards of academic integrity consistent with the academic and professional communities of which it is a part. Plagiarism, cheating, and other misconduct are serious violations of the University of Washington Student Conduct Code (WAC 478-120). We expect you to know and follow the university's policies on cheating and plagiarism, and [the SPH Academic Integrity Policy \(http://sph.washington.edu/students/academicintegrity/\)](http://sph.washington.edu/students/academicintegrity/). Any suspected cases of academic misconduct will be handled according to University of Washington regulations. For more information, see the University of Washington Community Standards and Student Conduct website.

## Course Summary:










Date	Details	Due
	 <a href="https://canvas.uw.edu/calendar?event_id=3016492&amp;include_contexts=course_1612755">ENV H 557 A Wi 23: Exposure Controls (https://canvas.uw.edu/calendar?event_id=3016492&amp;include_contexts=course_1612755)</a>	2:30pm to 5pm
	 <a href="https://canvas.uw.edu/courses/1612755/assignments/7925384">Class Outline and Case Studies (Yost) (https://canvas.uw.edu/courses/1612755/assignments/7925384)</a>	due by 11:55pm
Tue Jan 3, 2023	 <a href="https://canvas.uw.edu/courses/1612755/assignments/7761246">Case Study Example #1: Lead in metal recycling (https://canvas.uw.edu/courses/1612755/assignments/7761246)</a>	due by 11:56pm
	 <a href="https://canvas.uw.edu/courses/1612755/assignments/7761247">Noise Case Study Example (https://canvas.uw.edu/courses/1612755/assignments/7761247)</a>	due by 11:57pm
	 <a href="https://canvas.uw.edu/courses/1612755/assignments/7761252">Introduction to Exposure Control (Ceballos) (https://canvas.uw.edu/courses/1612755/assignments/7761252)</a>	due by 11:59pm

Date	Details	Due
Thu Jan 5, 2023	 <a href="#">ENV H 557 A Wi 23: Exposure Controls</a> <a href="https://canvas.uw.edu/calendar?event_id=3016493&amp;include_contexts=course_1612755">https://canvas.uw.edu/calendar?event_id=3016493&amp;include_contexts=course_1612755</a>	2:30pm to 5pm
	 <a href="#">No Class -- Cascadia Meeting</a> <a href="https://canvas.uw.edu/courses/1612755/assignments/7836369">https://canvas.uw.edu/courses/1612755/assignments/7836369</a>	due by 11:59pm
Tue Jan 10, 2023	 <a href="#">ENV H 557 A Wi 23: Exposure Controls</a> <a href="https://canvas.uw.edu/calendar?event_id=3016494&amp;include_contexts=course_1612755">https://canvas.uw.edu/calendar?event_id=3016494&amp;include_contexts=course_1612755</a>	2:30pm to 5pm
	 <a href="#">Regulatory Mandates (Yost)</a> <a href="https://canvas.uw.edu/courses/1612755/assignments/7761257">https://canvas.uw.edu/courses/1612755/assignments/7761257</a>	due by 11:55pm
	 <a href="#">Chemical Management (2nd Hour)</a> <a href="https://canvas.uw.edu/courses/1612755/assignments/7883086">https://canvas.uw.edu/courses/1612755/assignments/7883086</a>	due by 11:59pm
Thu Jan 12, 2023	 <a href="#">ENV H 557 A Wi 23: Exposure Controls</a> <a href="https://canvas.uw.edu/calendar?event_id=3016495&amp;include_contexts=course_1612755">https://canvas.uw.edu/calendar?event_id=3016495&amp;include_contexts=course_1612755</a>	2:30pm to 5pm
	 <a href="#">Substitution/Green Chemistry: finding safer alternatives (Ceballos)</a> <a href="https://canvas.uw.edu/courses/1612755/assignments/7761261">https://canvas.uw.edu/courses/1612755/assignments/7761261</a>	due by 11:59pm

Date	Details	Due
Tue Jan 17, 2023	 <a href="#">ENV H 557 A Wi 23: Exposure Controls</a> <a href="https://canvas.uw.edu/calendar?event_id=3016496&amp;include_contexts=course_1612755">https://canvas.uw.edu/calendar?event_id=3016496&amp;include_contexts=course_1612755</a>	2:30pm to 5pm
	 <a href="#">Control Banding (Ceballos)</a> <a href="https://canvas.uw.edu/courses/1612755/assignments/7836370">https://canvas.uw.edu/courses/1612755/assignments/7836370</a>	due by 11:55pm
	 <a href="#">Dilution Ventilation: Case studies on dangers of confined spaces (2nd hour)</a> <a href="https://canvas.uw.edu/courses/1612755/assignments/7860352">https://canvas.uw.edu/courses/1612755/assignments/7860352</a>	due by 11:56pm
	 <a href="#">Assignment 1 - Substitution</a> <a href="https://canvas.uw.edu/courses/1612755/assignments/7761237">https://canvas.uw.edu/courses/1612755/assignments/7761237</a>	due by 11:57pm
Thu Jan 19, 2023	 <a href="#">ENV H 557 A Wi 23: Exposure Controls</a> <a href="https://canvas.uw.edu/calendar?event_id=3016497&amp;include_contexts=course_1612755">https://canvas.uw.edu/calendar?event_id=3016497&amp;include_contexts=course_1612755</a>	2:30pm to 5pm
	 <a href="#">Dilution Ventilation: theory and application to confined space (Yost/Cohen)</a> <a href="https://canvas.uw.edu/courses/1612755/assignments/7761245">https://canvas.uw.edu/courses/1612755/assignments/7761245</a>	due by 2:30pm
Fri Jan 20, 2023	 <a href="#">Case Study - Confined Space Discussion Questions</a> <a href="https://canvas.uw.edu/courses/1612755/assignments/7914715">https://canvas.uw.edu/courses/1612755/assignments/7914715</a>	due by 11:59pm
	 <a href="#">Graded Discussion - Xcel Energy</a> <a href="https://canvas.uw.edu/courses/1612755/assignments/7960861">https://canvas.uw.edu/courses/1612755/assignments/7960861</a>	due by 11:59pm





Date	Details	Due
Tue Jan 24, 2023	 <a href="#">ENV H 557 A Wi 23: Exposure Controls</a> <a href="https://canvas.uw.edu/calendar?event_id=3016498&amp;include_contexts=course_1612755">https://canvas.uw.edu/calendar?event_id=3016498&amp;include_contexts=course_1612755</a>	2:30pm to 5pm
	 <a href="#">Fluid Mechanics Primer: Density, Viscosity &amp; Fluid Dynamics</a> <a href="https://canvas.uw.edu/courses/1612755/assignments/7761250">https://canvas.uw.edu/courses/1612755/assignments/7761250</a>	due by 11:55pm
	 <a href="#">Bernoulli Equation; Essential Pressure &amp; Flow Relationships</a> <a href="https://canvas.uw.edu/courses/1612755/assignments/7761242">https://canvas.uw.edu/courses/1612755/assignments/7761242</a>	due by 11:56pm
Thu Jan 26, 2023	 <a href="#">ENV H 557 A Wi 23: Exposure Controls</a> <a href="https://canvas.uw.edu/calendar?event_id=3016499&amp;include_contexts=course_1612755">https://canvas.uw.edu/calendar?event_id=3016499&amp;include_contexts=course_1612755</a>	2:30pm to 5pm
	 <a href="#">Fan Selection (air cleaners recorded)</a> <a href="https://canvas.uw.edu/courses/1612755/assignments/7761235">https://canvas.uw.edu/courses/1612755/assignments/7761235</a>	due by 11:59pm
	 <a href="#">Single &amp; Multi Branch Systems</a> <a href="https://canvas.uw.edu/courses/1612755/assignments/7761260">https://canvas.uw.edu/courses/1612755/assignments/7761260</a>	due by 11:59pm
Tue Jan 31, 2023	 <a href="#">ENV H 557 A Wi 23: Exposure Controls</a> <a href="https://canvas.uw.edu/calendar?event_id=3016500&amp;include_contexts=course_1612755">https://canvas.uw.edu/calendar?event_id=3016500&amp;include_contexts=course_1612755</a>	2:30pm to 5pm
	 <a href="#">Assignment 2 - Dilution Ventilation Problem Set</a> <a href="https://canvas.uw.edu/courses/1612755/assignments/7761238">https://canvas.uw.edu/courses/1612755/assignments/7761238</a>	due by 11:59pm
	 <a href="#">Hood Design &amp; Entry Effects; Ventilation Assessment air cleaning and Troubleshooting</a> <a href="https://canvas.uw.edu/courses/1612755/assignments/7761253">https://canvas.uw.edu/courses/1612755/assignments/7761253</a>	due by 11:59pm

Date	Details	Due
Thu Feb 2, 2023	 <a href="https://canvas.uw.edu/calendar?event_id=3016501&amp;include_contexts=course_1612755">ENV H 557 A Wi 23: Exposure Controls</a> <a href="https://canvas.uw.edu/calendar?event_id=3016501&amp;include_contexts=course_1612755">. (https://canvas.uw.edu/calendar?event_id=3016501&amp;include_contexts=course_1612755)</a>	2:30pm to 5pm
	 <a href="https://canvas.uw.edu/courses/1612755/assignments/7836404">More about ACH and Group Project Discussions</a> <a href="https://canvas.uw.edu/courses/1612755/assignments/7836404">. (https://canvas.uw.edu/courses/1612755/assignments/7836404)</a>	due by 11:59pm
Tue Feb 7, 2023	 <a href="https://canvas.uw.edu/calendar?event_id=3016502&amp;include_contexts=course_1612755">ENV H 557 A Wi 23: Exposure Controls</a> <a href="https://canvas.uw.edu/calendar?event_id=3016502&amp;include_contexts=course_1612755">. (https://canvas.uw.edu/calendar?event_id=3016502&amp;include_contexts=course_1612755)</a>	2:30pm to 5pm
	 <a href="https://canvas.uw.edu/courses/1612755/assignments/7761255">Lab Exercise 1 (MEET AT ROOSEVELT LOBBY)</a> <a href="https://canvas.uw.edu/courses/1612755/assignments/7761255">. (https://canvas.uw.edu/courses/1612755/assignments/7761255)</a>	due by 11:59pm
Thu Feb 9, 2023	 <a href="https://canvas.uw.edu/calendar?event_id=3016503&amp;include_contexts=course_1612755">ENV H 557 A Wi 23: Exposure Controls</a> <a href="https://canvas.uw.edu/calendar?event_id=3016503&amp;include_contexts=course_1612755">. (https://canvas.uw.edu/calendar?event_id=3016503&amp;include_contexts=course_1612755)</a>	2:30pm to 5pm
	 <a href="https://canvas.uw.edu/courses/1612755/assignments/7761256">Lab Exercise 2 (MEET AT ROOSEVELT LOBBY)</a> <a href="https://canvas.uw.edu/courses/1612755/assignments/7761256">. (https://canvas.uw.edu/courses/1612755/assignments/7761256)</a>	due by 11:59pm
Tue Feb 14, 2023	 <a href="https://canvas.uw.edu/calendar?event_id=3016504&amp;include_contexts=course_1612755">ENV H 557 A Wi 23: Exposure Controls</a> <a href="https://canvas.uw.edu/calendar?event_id=3016504&amp;include_contexts=course_1612755">. (https://canvas.uw.edu/calendar?event_id=3016504&amp;include_contexts=course_1612755)</a>	2:30pm to 5pm
	 <a href="https://canvas.uw.edu/courses/1612755/assignments/7836372">Administrative Controls (Ceballos)</a> <a href="https://canvas.uw.edu/courses/1612755/assignments/7836372">. (https://canvas.uw.edu/courses/1612755/assignments/7836372)</a>	due by 11:59pm

Date	Details	Due
Thu Feb 16, 2023	 <a href="https://canvas.uw.edu/calendar?event_id=3016505&amp;include_contexts=course_1612755">ENV H 557 A Wi 23: Exposure Controls</a> <a href="https://canvas.uw.edu/calendar?event_id=3016505&amp;include_contexts=course_1612755">(<a href="https://canvas.uw.edu/calendar?event_id=3016505&amp;include_contexts=course_1612755">https://canvas.uw.edu/calendar?event_id=3016505&amp;include_contexts=course_1612755</a>)</a>	2:30pm to 5pm
Thu Feb 16, 2023	 <a href="https://canvas.uw.edu/courses/1612755/assignments/7854137">Building Thermal Comfort - system components</a> <a href="https://canvas.uw.edu/courses/1612755/assignments/7854137">(<a href="https://canvas.uw.edu/courses/1612755/assignments/7854137">https://canvas.uw.edu/courses/1612755/assignments/7854137</a>)</a>	due by 11:59pm
Thu Feb 16, 2023	 <a href="https://canvas.uw.edu/courses/1612755/assignments/7836365">IAQ investigations</a> <a href="https://canvas.uw.edu/courses/1612755/assignments/7836365">(<a href="https://canvas.uw.edu/courses/1612755/assignments/7836365">https://canvas.uw.edu/courses/1612755/assignments/7836365</a>)</a>	due by 11:59pm
Fri Feb 17, 2023	 <a href="https://canvas.uw.edu/courses/1612755/assignments/7914708">Assignment 3 - Ventilation Problem Set</a> <a href="https://canvas.uw.edu/courses/1612755/assignments/7914708">(<a href="https://canvas.uw.edu/courses/1612755/assignments/7914708">https://canvas.uw.edu/courses/1612755/assignments/7914708</a>)</a>	due by 11:59pm
Tue Feb 21, 2023	 <a href="https://canvas.uw.edu/calendar?event_id=3016506&amp;include_contexts=course_1612755">ENV H 557 A Wi 23: Exposure Controls</a> <a href="https://canvas.uw.edu/calendar?event_id=3016506&amp;include_contexts=course_1612755">(<a href="https://canvas.uw.edu/calendar?event_id=3016506&amp;include_contexts=course_1612755">https://canvas.uw.edu/calendar?event_id=3016506&amp;include_contexts=course_1612755</a>)</a>	2:30pm to 5pm
Tue Feb 21, 2023	 <a href="https://canvas.uw.edu/courses/1612755/assignments/7761248">Exposure Controls for Physical Agents</a> <a href="https://canvas.uw.edu/courses/1612755/assignments/7761248">(<a href="https://canvas.uw.edu/courses/1612755/assignments/7761248">https://canvas.uw.edu/courses/1612755/assignments/7761248</a>)</a>	due by 11:59pm
Tue Feb 21, 2023	 <a href="https://canvas.uw.edu/courses/1612755/assignments/7854135">OPEN - Hazard controls in health care</a> <a href="https://canvas.uw.edu/courses/1612755/assignments/7854135">(<a href="https://canvas.uw.edu/courses/1612755/assignments/7854135">https://canvas.uw.edu/courses/1612755/assignments/7854135</a>)</a>	due by 11:59pm
Thu Feb 23, 2023	 <a href="https://canvas.uw.edu/calendar?event_id=3016507&amp;include_contexts=course_1612755">ENV H 557 A Wi 23: Exposure Controls</a> <a href="https://canvas.uw.edu/calendar?event_id=3016507&amp;include_contexts=course_1612755">(<a href="https://canvas.uw.edu/calendar?event_id=3016507&amp;include_contexts=course_1612755">https://canvas.uw.edu/calendar?event_id=3016507&amp;include_contexts=course_1612755</a>)</a>	2:30pm to 5pm
Thu Feb 23, 2023	 <a href="https://canvas.uw.edu/courses/1612755/assignments/7761254">Tour of Roosevelt Building HVAC system (ROOSEVELT)</a> <a href="https://canvas.uw.edu/courses/1612755/assignments/7761254">(<a href="https://canvas.uw.edu/courses/1612755/assignments/7761254">https://canvas.uw.edu/courses/1612755/assignments/7761254</a>)</a>	due by 11:59pm
Fri Feb 24, 2023	 <a href="https://canvas.uw.edu/courses/1612755/assignments/7761262">Ventilation lab - writeup</a> <a href="https://canvas.uw.edu/courses/1612755/assignments/7761262">(<a href="https://canvas.uw.edu/courses/1612755/assignments/7761262">https://canvas.uw.edu/courses/1612755/assignments/7761262</a>)</a>	due by 11:59pm



Date	Details	Due
Tue Feb 28, 2023	 <a href="#">ENV H 557 A Wi 23: Exposure Controls</a> <a href="https://canvas.uw.edu/calendar?event_id=3016508&amp;include_contexts=course_1612755">https://canvas.uw.edu/calendar?event_id=3016508&amp;include_contexts=course_1612755</a>	2:30pm to 5pm
	 <a href="#">Chemical &amp; Biological Agents; Chemical Protective Clothing (Ceballos)</a> <a href="https://canvas.uw.edu/courses/1612755/assignments/7761243">https://canvas.uw.edu/courses/1612755/assignments/7761243</a>	due by 11:59pm
	 <a href="#">ENV H 557 A Wi 23: Exposure Controls</a> <a href="https://canvas.uw.edu/calendar?event_id=3016509&amp;include_contexts=course_1612755">https://canvas.uw.edu/calendar?event_id=3016509&amp;include_contexts=course_1612755</a>	2:30pm to 5pm
Thu Mar 2, 2023	 <a href="#">Respirator Fit Testing &amp; Training (ROOSEVELT)</a> <a href="https://canvas.uw.edu/courses/1612755/assignments/7761258">https://canvas.uw.edu/courses/1612755/assignments/7761258</a>	due by 2:30pm
	 <a href="#">Respirator Selection &amp; Uses (ROOSEVELT)</a> <a href="https://canvas.uw.edu/courses/1612755/assignments/7761259">https://canvas.uw.edu/courses/1612755/assignments/7761259</a>	due by 11:59pm
Fri Mar 3, 2023	 <a href="#">Assignment 4 - PPE Selection</a> <a href="https://canvas.uw.edu/courses/1612755/assignments/7761236">https://canvas.uw.edu/courses/1612755/assignments/7761236</a>	due by 11:59pm
	 <a href="#">ENV H 557 A Wi 23: Exposure Controls</a> <a href="https://canvas.uw.edu/calendar?event_id=3016510&amp;include_contexts=course_1612755">https://canvas.uw.edu/calendar?event_id=3016510&amp;include_contexts=course_1612755</a>	2:30pm to 5pm
Tue Mar 7, 2023	 <a href="#">Group Presentations - Day 1</a> <a href="https://canvas.uw.edu/courses/1612755/assignments/7761249">https://canvas.uw.edu/courses/1612755/assignments/7761249</a>	due by 11:59pm
	 <a href="#">ENV H 557 A Wi 23: Exposure Controls</a> <a href="https://canvas.uw.edu/calendar?event_id=3016511&amp;include_contexts=course_1612755">https://canvas.uw.edu/calendar?event_id=3016511&amp;include_contexts=course_1612755</a>	2:30pm to 5pm
Thu Mar 9, 2023	 <a href="#">Group Presentation - Day 2</a> <a href="https://canvas.uw.edu/courses/1612755/assignments/7761251">https://canvas.uw.edu/courses/1612755/assignments/7761251</a>	due by 11:59pm
Wed Mar 15, 2023	 <a href="#">Individual final report - Instructions</a>	due by 5:55pm

Date	Details	Due
	<a href="https://canvas.uw.edu/courses/1612755/assignments/7961770">(<a href="https://canvas.uw.edu/courses/1612755/assignments/7961770">https://canvas.uw.edu/courses/1612755/assignments/7961770</a>)</a>	
	 <a href="#">Assignment - LEV System Design, Segment 1</a> <a href="https://canvas.uw.edu/courses/1612755/assignments/7761239">(<a href="https://canvas.uw.edu/courses/1612755/assignments/7761239">https://canvas.uw.edu/courses/1612755/assignments/7761239</a>)</a>	
	 <a href="#">Assignment - LEV System Design, Segment 2</a> <a href="https://canvas.uw.edu/courses/1612755/assignments/7761240">(<a href="https://canvas.uw.edu/courses/1612755/assignments/7761240">https://canvas.uw.edu/courses/1612755/assignments/7761240</a>)</a>	
	 <a href="#">Assignment - LEV System Design, Segment 3</a> <a href="https://canvas.uw.edu/courses/1612755/assignments/7761241">(<a href="https://canvas.uw.edu/courses/1612755/assignments/7761241">https://canvas.uw.edu/courses/1612755/assignments/7761241</a>)</a>	
	 <a href="#">Exposure Controls in Confined Spaces (Ceballos)</a> <a href="https://canvas.uw.edu/courses/1612755/assignments/7761244">(<a href="https://canvas.uw.edu/courses/1612755/assignments/7761244">https://canvas.uw.edu/courses/1612755/assignments/7761244</a>)</a>	