COURSE DETAIL

PROCESS SAFETY AND ENVIRONMENTAL ISSUES IN CHEMICAL ENGINEERING 3

Country
United Kingdom - Scotland

Host Institution
University of Edinburgh

Program(s)
University of Edinburgh

UCEAP Course Level
Upper Division

UCEAP Subject Area(s)
Chemical Engineering

UCEAP Course Number
112

UCEAP Course Suffix

UCEAP Official Title
PROCESS SAFETY AND ENVIRONMENTAL ISSUES IN CHEMICAL ENGINEERING 3

UCEAP Transcript Title
PROC SAFETY/C ENG 3

UCEAP Quarter Units
8.00

UCEAP Semester Units
5.30

Course Description

In this course, students cover contemporary safety and environmental concerns as they impinge on the practicing engineer, the legal and regulatory background to engineering activity, to ensure safe operation of hazardous processes, and the procedures to be followed in seeking a license from the environmental protection agencies for the operation of processes involving prescribed substances. Generation, propagation, and the fate of pollutants discharged to the air, to water, and to the ground are discussed along with means of mitigating emissions by elimination, substitution, and pre-discharge treatment are considered. Methods of identifying process hazards are introduced leading to risk assessment and consequence analysis using hand calculation methods are presented to allow risk assessment and its application to the process industries to be appreciated.

Language(s) of Instruction
English

Host Institution Course Number
CHEE09019

Host Institution Course Title
PROCESS SAFETY AND ENVIRONMENTAL ISSUES IN CHEMICAL ENGINEERING 3

Host Institution Course Details
http://www.drps.ed.ac.uk/22-23/dpt/cxchee09019.htm

Host Institution Campus
University of Edinburgh

Host Institution Faculty
School of Engineering

Host Institution Degree
Host Institution Department
Course Last Reviewed 2022-2023

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