

# MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE

## COURSE OUTLINE

DEPT. RNEW

COURSE NUMBER: 1130

NUMBER OF CREDITS: 2

Lecture: 2 Lab: 0 OJT: 0

<b>Course Title:</b>
Pollution Control Fundamentals

<b>Catalog Description:</b>
Pollution Control Fundamentals covers the fundamentals of pollution control in a process plant. Identification of the major sources of pollution, explanation of control devices used to minimize polluting emissions; the importance of reducing emissions and keeping in compliance with State and Federal regulations will be discussed. The state and federal regulatory agencies overseeing permitting and their enforcement procedures will also be covered.

<b>Prerequisites or Necessary Entry Skills/Knowledge:</b>
None

**FULFILLS MN TRANSFER CURRICULUM AREA(S) (*Leave blank if not applicable*)**

- ☐ Goal 1: Communication: By meeting the following competencies:
- ☐ Goal 2: Critical Thinking: By meeting the following competencies:
- ☐ Goal 3: Natural Sciences: By meeting the following competencies:
- ☐ Goal 4: Mathematics/Logical Reasoning: By meeting the following competencies:
- ☐ Goal 5: History and the Social and Behavioral Sciences: By meeting the following competencies:
- ☐ Goal 6: The Humanities and Fine Arts: By meeting the following competencies:
- ☐ Goal 7: Human Diversity: By meeting the following competencies:
- ☐ Goal 8: Global Perspective: By meeting the following competencies:
- ☐ Goal 9: Ethical and Civic Responsibility: By meeting the following competencies:
- ☐ Goal 10: People and the Environment: By meeting the following competencies:

<b>Topics to be Covered</b>
Environmental Protection Agency (EPA)
Minnesota Pollution Control Agency (MPCA)
Environmental Assessment Worksheet (EAW)
Air Emissions Permit
National Pollutant Discharge Elimination System (NPDES)
Storm Water Pollution Prevention Plan
Above Ground Storage Tank Regulations

Risk Management Plan (RMP)
State Authorization Reciprocity Agreement (SARA)

<b>Student Learning Outcomes</b>
Demonstrate knowledge of the role of and the differences between the EPA and the MPCA.
Define EAW and explain its role in permitting.
Define Air Emissions Permit and explain its use.
Explain the use of an NPDES General Storm Water Discharge Permit.
Explain the Spill Prevention, Control and Countermeasures Plan.
Explain the Storm Water Pollution Prevention Plan.
Explain the Above Ground Storage Tank Regulations.
Define RMP (Risk Management Plan) and explain its uses.
Define the SARA notification forms and explain their uses.

<b>Is this course part of a transfer pathway:</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
<i>*If yes, please list the competencies below</i>

Revised Date: 3/29/2022