

DEPARTMENT OF SCIENCE COURSE OUTLINE – Winter 2023

POF 429 (VA2): 4th Class Power Engineering Controlled Plant Practicum – 5 (0-0-40) 240 Hours over 6 Weeks

Northwestern Polytechnic acknowledges that our campuses are located on Treaty 8 territory, the ancestral and present-day home to many diverse First Nations, Metis, and Inuit people. We are grateful to work, live and learn on the traditional territory of Duncan's First Nation, Horse Lake First Nation and Sturgeon Lake Cree Nation, who are the original caretakers of this land.

We acknowledge the history of this land and we are thankful for the opportunity to walk together in friendship, where we will encourage and promote positive change for present and future generations.

INSTRUCTOR: Wells Darling
OFFICE: J206
OFFICE HOURS: As posted

PHONE: 780-539-2819
E-MAIL: wdarling@nwpolytech.ca

CALENDAR DESCRIPTION: A controlled practicum shall take place at a power plant that satisfies the minimum kilowatt capacity specified in the Power Engineers Regulations. The controlled practicum shall include a documented competency verification system, a written project report, line drawings of the plant, itemized task listings, projects/challenges applicable at specific plant level, and attendance verification.

PREREQUISITE(S)/COREQUISITE: Must be registered in Northwestern Polytechnic's Power Engineering 4th Class program and have successfully completed POF401, POF402, POF403, POF406, POF407, and POF425 in the previous semester.

REQUIRED TEXT/RESOURCE MATERIALS:

- Flame retardant coveralls (often required for industry)
- CSA (green triangle) approved work boot, 6" high minimum (typical industry standard)
- Leather gloves
- Safety eyewear. Prescription glasses are required to be safety rated or use safety goggles.
- CSA approved hard hat

DELIVERY MODE(S): Practicums will take place off-campus at an approved practicum location.

COURSE OBJECTIVES: This is plant experience in a power plant providing hands-on experience in an industrial working environment.

LEARNING OUTCOMES:

- Work in a power plant with a minimum 4th Class rating for 240 hours.
- Complete a plant report
- Complete a log book of the experience using the Power Engineer's Regulations (PER) as a guide
- Complete a line drawing of the process you worked in

TRANSFERABILITY:

Nontransferable, there are no transfer agreements in place.

EVALUATIONS:

- 70% Controlled Practicum
- 20% Practicum Report
- 10% Practicum Presentation

GRADING CRITERIA:

Alpha Grade	4-point Equivalent	Percentage Guidelines		Alpha Grade	4-point Equivalent	Percentage Guidelines
A+	4.0	94-100		C+	2.3	68-71
A	4.0	89-93		C	2.0	64-67
A-	3.7	84-88		C-	1.7	60-63
B+	3.3	80-83		D+	1.3	55-59
B	3.0	76-79		D	1.0	50-54
B-	2.7	72-75		F	0.0	00-49

COURSE SCHEDULE/TENTATIVE TIMELINE: January 2 – February 10, 2023.

Minimum 240 hours required to complete the practicum.

STUDENT RESPONSIBILITIES: Students must be prepared to relocate and provide their own transportation for the duration of the practicum. They are also responsible to ensure they are scheduled for, and complete all 240 hours of the practicum.

STATEMENT ON PLAGIARISM AND CHEATING: Cheating and plagiarism will not be tolerated and there will be penalties. For a more precise definition of plagiarism and its consequences, refer to the Student Conduct section of the Northwestern Polytechnic Calendar at

<https://www.nwpolytech.ca/programs/calendar/> or the Student Rights and Responsibilities policy which can be found at <https://www.nwpolytech.ca/about/administration/policies/index.html>.

**Note: all Academic and Administrative policies are available on the same page.