

## DEPARTMENT OF SCIENCE

### COURSE OUTLINE – Summer 2025

**PW 1498 : Power Engineering Work Experience – 3 (0-0-0) 480 Hours over 12 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:** Curran Speager  
**OFFICE:** L215  
**OFFICE HOURS:**

**PHONE:** 780-539-2865  
**E-MAIL:** cspeager@nwpolytech.ca

**CALENDAR DESCRIPTION:** This course is the work integrated learning component of the Power Engineering program to be completed at an approved facility. Students will operate power and pressure equipment safely and efficiently, assess hazards, and comply with legislative acts and regulations while developing interpersonal and communication skills in real world environments.

**PREREQUISITE(S)/COREQUISITE:** Successful completion of all 1<sup>st</sup> year courses and valid ABSA 4<sup>th</sup> class Power Engineering certificate of competency.

**REQUIRED TEXT/RESOURCE MATERIALS:**

**DELIVERY MODE(S):** In-person at an approved power engineering facility.

**LEARNING OUTCOMES:** At the end of this course students will:

- Operate power and pressure equipment effectively and safely, applying theoretical and practical knowledge gained in the power lab to real-world work situations.

- Assess and implement safety controls, reporting any identified hazards while adhering to legislative acts, regulations, and codes.
- Record activities in logbooks according to applicable acts, regulations, and codes, including completion of attendance reports and AB-66(a) forms.
- Develop interpersonal and communication skills, fostering teamwork and the ability to contribute positively to employer evaluations.
- Create a report describing their assigned work unit.
- Acquire necessary skills and knowledge to operate power and pressure equipment safely and efficiently.
- Develop essential interpersonal and communication skills for effective teamwork in a professional environment.

**TRANSFERABILITY:** Nontransferable, there are no transfer agreements in place.

**EVALUATIONS:**

Plant Report 100%

**GRADING CRITERIA:** Grades for this course will be assigned as a percentage. The minimum passing grade is 65%

**COURSE SCHEDULE/TENTATIVE TIMELINE:** 12 weeks during the summer break. 480 hours minimum.

**STUDENT RESPONSIBILITIES:** Students will be responsible for their own transportation to and from the facility. They will also be required to meet all terms of employment and follow all site safety regulations and requirements. A completed plant report, and a signed AB-66(a) will also be required.

**STATEMENT ON ACADEMIC MISCONDUCT:**

Academic Misconduct will not be tolerated. For a more precise definition of academic misconduct and its consequences, refer to the Student Rights and Responsibilities policy available at <https://www.nwpolytech.ca/about/administration/policies/index.html>.

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