



**DELIVERY MODE(S):** In person delivery.

Note: NWP reserves the right to change the course delivery.

**LEARNING OUTCOMES:** After completing this unit, students will be able to:

- Identify common brake system components and explain the purpose of those components.
- Explain the operation of various types of brake systems.

**TRANSFERABILITY:** None.

**EVALUATIONS:**

**Hydraulic Brakes..... 44hours**

*Exams Average* = \_\_\_\_\_ *x 35%*

Class Assignments/Quizzes = \_\_\_\_\_ *x 35%*

*Shop Total* \_\_\_\_\_ *x 30%*

**HES241 VZ21 FINAL MARK = \_\_\_\_\_ %**

**GRADING CRITERIA:**

Students must complete all required courses with no failing grades. A passing grade in this course is a **minimum of 70%**. A student can be removed from the program if a 70% grade is not reached for the course.

Grades for this course will be assigned as a percentage.

## **COURSE SCHEDULE/TENTATIVE TIMELINE:**

- Fundamentals
- Components, Function and Nomenclature
- Hydraulic System and Operation
- Disc Brakes
- Drum Brakes
- Parking Brakes – Mechanical and Hydraulic
- Service

## **STUDENT RESPONSIBILITIES:**

This is an adult education environment. Enrolment at Northwestern Polytechnic assumes that the student will become a responsible citizen of NWP. As such, each student will display a positive work ethic, take pride in, and assist in the maintenance and preservation of Institute property, and assume responsibility for his/her education by researching academic requirements and policies, demonstrating courtesy and respect toward others; and respecting instructor expectations concerning attendance, classroom and shop rules, safety, assignments, deadlines and appointments. Students are learning skills to prepare them for the work environment. Non-academic misconduct, including the possession, use, or distribution of intoxicants, will be addressed through the Student Rights and Responsibilities policy.

Students are expected to attend all class and shop hours. Students who miss more than 21 hours or 3 days of classes may be removed from the course.

Absences will be monitored and recorded by the instructors.

- Upon reaching 7 hours missed time in a single semester the student will be required to meet with the instructor.
- Upon reaching 14 hours missed time in a single semester the student will be required to meet with the instructor and program Chair.
- Upon reaching 21 hours missed time in a single semester the student will be required to meet with the program Chair, the Instructor and the Dean to evaluate the students' ability successfully continue in the Think BIG program.

## **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.

## **Additional Information (Optional):**