

DEPARTMENT OF TRANSPORTATION TRADES THINKBIG SERVICE TECHNICIAN COURSE OUTLINE – WINTER 2023 JANUARY 3 – FEBRUARY 24, 2023 HES221 VA23 – TRUCK, TRAILER, FRAMES, SUSPENSION AND SERVICE - 1.5 CREDITD (48 HOURS)

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:	Delbert Lubeck	PHONE:	Office 780.835.6786
OFFICE:	FPS 112	E-MAIL:	dlubeck@nwpolytech.ca
OFFICE HOURS:	8 AM to 4:30 PM		

CALENDAR DESCRIPTION: Topics covered in this course include: the fundamentals and servicing of truck and trailer frames and suspension; wheels, tires and hubs; trailer landing gear; coupling units; trailer types and an introduction to trailer inspection as directed by the Commercial Vehicle Inspection Program; oxy-fuel heating and cutting; and preventive maintenance.

Delivery Option: Fairview Campus Only

PREREQUISITE(S)/COREQUISITE: Successful completion of Block 1 and HES190 work placement.

REQUIRED TEXT/RESOURCE MATERIALS:

Caterpillar Material

Caterpillar Service Industry

Unit 4: Connective Devices

Lesson 2 – Hoses and Seals

Lesson 3 – Bearings

Alberta Apprenticeship and Industry Training Individual Learning Modules Heavy Equipment Technician (HET)

- 190102a Frame and Suspension Fundamentals
- 190102b Frame and Suspension Service
- 190102c Bearings and Seals
- 190102d Wheels, Tires and Hubs
- 190102e Trailer Systems and Components
- 190102f Coupling Units Fundamentals and Service
- 190102g Landing Gear Fundamentals and Service
- 190102h Orientation to Trailer Inspection
- 190102i Preventive Maintenance
- 190404d Orientation to Vehicle Inspection Testing and Service
 - 190205f Non-Electric Cranking Systems

DELIVERY MODE(S): In person delivery.

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

COURSE OBJECTIVES:

LEARNING OUTCOMES: TRANSFERABILITY: None.

EVALUATIONS:

GRADING CRITERIA:

Students must complete all required courses with a grade point average of no less than 2.7 and no failing (F) grades. A passing grade in this course is a **minimum of 70%**.

Class Assignments/Quizzes/Labs = _____ x 55%

Shop = _____ x 25%

HES221 VA23 FINAL MARK = _____%

Alpha Grade	4-point	Percentage	Alpha	4-point	Percentage
	Equivalent	Guidelines	Grade	Equivalent	Guidelines
A+	4.0	90-100	C+	2.3	67-69
А	4.0	85-89	С	2.0	63-66
A-	3.7	80-84	C-	1.7	60-62
B+	3.3	77-79	D+	1.3	55-59
В	3.0	73-76	D	1.0	50-54
B-	2.7	70-72	F	0.0	00-49

COURSE SCHEDULE/TENTATIVE TIMELINE:

STUDENT RESPONSIBILITIES: This is an adult education environment. Enrolment at Northwestern Polytechnic assumes that the student will become a responsible citizen of the College. 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.

Following the guidelines in "Student Rights and Responsibilities" in the NWP College calendar assist us all in maintaining an adult learning environment. Please refer to the Student Rights and Responsibilities policy in the Northwestern Polytechnic Calendar or at www.nwpolytech.ca/downloads/documents/StudentRightsandResponsibilities.pdf.

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/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):