

DEPARTMENT OF HEAVY EQUIPMENT THINKBIG SERVICE TECHNICIAN COURSE OUTLINE – WINTER 2017 JANUARY 3 – FEBRUARY 24, 2017

HES221 VA23 – TRUCK AND TRAILER SUSPENSION AND STEERING - 1.5 (48 HOURS)

INSTRUCTOR: Al Hagen **PHONE:** 780.835.6737

OFFICE: FM4 101 E-MAIL: ahagen@gprc.ab.ca

OFFICE HOURS: 8.30am – 4.30pm

PREREQUISITE(S)/COREQUISITE: Successful completion of Block 1 and HES90 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

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

CREDIT/CONTACT HOURS: Credits: 1.5 / Contact Hours: 48.

DELIVERY MODE(S): Lecture and lab.

TRANSFERABILITY: None.

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%.**

Truck and Trailer Suspension and Steering	48 / 240 hours = 20 % of Semester 2 mark
Exams Average =	x 45%
Class Assignments/Quizzes/Labs =	x 55%
HES221 VA23	FINAL MARK = %

GRANDE PRAIRIE REGIONAL COLLEGE			
GRADING CONVERSION CHART			
Alpha Grade	4-point Equivalent	Percentage Guidelines	Designation
A ⁺	4.0	90 – 100	EXCELLENT
Α	4.0	85 – 89	
A-	3.7	80 – 84	FIRST CLASS STANDING
B+	3.3	77 – 79	
В	3.0	73 – 76	GOOD
B-	2.7	70 – 72	
F	0.0	67 – 69	FAIL
F	0.0	63 – 66	
F	0.0	60 – 62	
F	0.0	55 – 59	
F	0.0	50 – 54	
F	0.0	0 – 49	
WF	0.0	0	FAIL, withdrawal after the deadline

STUDENT RESPONSIBILITIES:

This is an adult education environment. Enrolment at Grande Prairie Regional College 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 GPRC College calendar assist us all in maintaining an adult learning environment. Please refer to the Student Rights and Responsibilities policy in the Grande Prairie Regional College Calendar or at www.gprc.ab.ca/downloads/documents/StudentRightsandResponsibilities.pdf.

STATEMENT ON PLAGIARISM AND CHEATING:

Refer to the Student Conduct section of the GPRC Calendar at http://www.gprc.ab.ca/programs/calendar/ Pages 44 to 46 or the College Policy on Student Misconduct: Plagiarism and Cheating at http://www.gprc.ab.ca/about/administration/policies/. **

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

COURSE SCHEDULE/TENTATIVE TIMELINE:

- Truck and Trailer Frame and Suspension Fundamentals
- Truck and Trailer Frame and Suspension Service
- Truck and Trailer Wheels, Tires and Hubs