GPRC

DEPARTMENT OF HEAVY EQUIPMENT

THINKBIG SERVICE TECHNICIAN COURSE OUTLINE – WINTER 2021

JANUARY 4 - FEBRUARY 26, 2021

HES221 VA23 – TRUCK, TRAILER, FRAMES, SUSPENSION AND SERVICE

- 1.5 (48 HOURS)

INSTRUCTOR:	Delbert Lubeck	PHONE:	780.835.6786
OFFICE:	FPS 112	E-MAIL:	dlubeck@gprc.ab.ca
OFFICE HOURS:	8.30am – 4.30pm		

WINTER 2021 DELIVERY:

Mixed Delivery – Remote and Onsite. This course is delivered remotely with some face-toface/onsite components at the GPRC Fairview campus.

- For the remote delivery components: students must have a computer with a webcam and reliable internet connection. Technological support is available through <u>helpdesk@gprc.ab.ca</u>.
- For the onsite components: students must supply their own mask [and/or face shield] and follow <u>GPRC Campus Access Guidelines and Expectations</u>.

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

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

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): Mixed delivery

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 30%
Shop Total =	x 25%

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		
A	4.0	85 – 89			
A [−]	3.7	80 - 84			
B⁺	3.3	77 – 79	FIRST CLASS STANDING		
В	3.0	73 – 76	C00D		
B-	2.7	70 – 72	GOOD		
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 <u>www.gprc.ab.ca/downloads/documents/StudentRightsandResponsibilities.pdf</u>.

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.