



**DEPARTMENT OF HEAVY EQUIPMENT**  
**THINKBIG SERVICE TECHNICIAN COURSE OUTLINE – WINTER 2021**  
**JANUARY 4 – FEBRUARY 26, 2021**  
**HES262 VA23 - ELECTRICAL CIRCUITS - 1.5 (40 HOURS)**

**INSTRUCTOR:** Richard McGrail      **PHONE:** 780.835.6778  
**OFFICE:** FPS 110      **E-MAIL:** rmcgrail@gprc.ab.ca  
**OFFICE HOURS:** 8.00am to 4.30pm

**WINTER 2021 DELIVERY:**

Mixed Delivery – Remote and Onsite. This course is delivered remotely with some face-to-face/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 [helpdesk@gprc.ab.ca](mailto:helpdesk@gprc.ab.ca).
- For the onsite components: students must supply their own mask [and/or face shield] and follow [GPRC Campus Access Guidelines and Expectations](#).

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

**PREREQUISITE(S)/COREQUISITE:** Successful completion of Semesters 1.

**REQUIRED TEXT/RESOURCE MATERIALS:**

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

- 190302dA – Off-Road Electrical Circuit Fundamentals – Part A
- 190302dB - Off-Road Electrical Circuit Fundamentals – Part B
- 190302e – Off-Road Electrical Circuit Service
- 190404aA – Truck Electrical Circuit Fundamentals – Part A
- 190404aB – Truck Electrical Circuit Fundamentals – Part B
- 190404b – Truck Electrical Circuit Service

**CALENDAR DESCRIPTION:** Truck and machine electrical and accessory circuits are examined in this course.

Delivery Option: Fairview Campus Only

**CREDIT/CONTACT HOURS:** Credits: 1.5 / Contact Hours: 40.

**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%**.

**Electrical Circuits**..... **40 / 240 hours = 16 %**  
**of Semester 2 mark**

**Exams Average =** \_\_\_\_\_ **x 45%**

**Class Assignments/Quizzes =** \_\_\_\_\_ **x 30%**

**Shop Total** \_\_\_\_\_ **x 25%**

**HES 262 VA23 FINAL MARK = \_\_\_\_\_ %**

**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.

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

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](http://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.