Name of Project Automotive Electrical Trainers 3.0

Additional Information about the Project: This project is a continuation of the last 2 years high impact grant to increase the capacity of our automotive electrical trainers and add another level of learning with an online learning platform.

How this project aligns with the School District Strategic Plan and/or School Improvement Plan: This project aligns districts strategic plan by increasing the number of students passing industry certifications which is in Target 1.5 Increase the District's state ranking for high school accelerated performance by two (2) rank positions. This project also aligns with goal one of Sebastian River High School's School Improvement Plan, which revolves around standard based instruction. This trainer allows for multiple standards to be taught at a rigorous level in all three grade levels 10th, 11th, and 12th. The electrical trainers give our students a greater opportunity to earn multiple industry certification during their time in our automotive program ensuring that when they enter the workforce, they are ready.

Amount Requested \$ 9,436.00

Total Project Cost \$18,826.00 (last year's grant is included) Targeted Population 10th, 11th and 12th grade

Number of children to be served and grade level(s) 100-110 10th 11th 12th

Succinct Summary – The Issue, the change, and the action: The Issue: What challenge or opportunity will this grant help your school address? The challenge that we face within the automotive classroom is students grasping the concepts of automotive electrical systems. It is a hard thing to demonstrate in the vehicle since wires and modules are hidden behind trim and other components. In addition to the electrical trainer the other line items are for two ten-year subscriptions that integrate directly with our Learning Management System that we currently use in the automotive classroom. Through the use of the online modules, it will allow students to be able to deepen their learning and understanding of complex tasks. This year my classes have seen an increase in student participation; therefore I do not have enough trainers to engage all the students in synchronous learning. In addition, by purchasing the two ten-year subscriptions for digital learning it will allow my students to engage in learning asynchronous and synchronous learning. By adding additional trainer's student engagement will be increased and therefore student achievement will rise. With the current situation of COVID-19 and social distancing having additional trainers will help make the lab environment safer for all students.

The Change: What change do you intend to see as a result of this grant? The goal for this grant is to increase student success on the ASE entry level industry certification. By using the trainers to demonstrates common multiplexing circuit controls via a high-speed CAN Bus network; students would use this trainer to build circuits and learn diagnostic trouble shooting skills and apply theory they are learning in class. By adding the digital component students will seamless transition of learning from a theory to practice.

The Action: What strategic activities will be included in this grant (what are the steps)? Buy trainer to focus on CAN bus and other electrical circuits along with the online site license. Begin utilizing the implementation of the digital learning platform and assessing students knowledge of CAN bus theories. Implement trainer in course work to enhance the student knowledge and application of skills.

Grant Oversight: Who will be responsible for the project? Who provides the oversight? Who will ensure that the project is sustainable?

Garrett Roux, the automotive instructor will be the one who will be responsible for the project. The project will be sustainable due to the fact the trainer is the newest technology. Students will be learning with using the top of industry standard and therefore will enhance their learning opportunities but ultimately their career opportunities. Also the ten year licensing subscription gives us many years of learning for a very low cost.

Monitoring Progress and Results: How will progress and results will be monitored and reported?

Based on the test data that we have from we have already seen the benefits of last 2 year's grants with the high achievement results. The industry certifications student data shows that on the ASE Entry level exam was increased from prior years. My 2020/2021 juniors and seniors that took the ASE for electrical 74% passed the exam. 21 of 25 seniors graduate with this certification and 16 of 25 juniors.

Volunteers: Does this proposal provide an opportunity for community volunteers to support your school? If so, how many volunteers, how often, and what days/times? N/A

Item quantity	Description	Cost
1	Automotive lighting system trainer upgrade kit	\$6,576.00
1	Electude 10-year site license for CL-1918-3	\$1,100.00
1	Electude 10-year site license for MP-1918	\$1,100.00
6	Electude 10-year unit license for ConsuLab training aid (we need 6 of these due to having 6 trainers total)	\$660.00
TOTAL		\$ 9,436.00