J. Sargeant Reynolds Community College Course Content Summary

Course Prefix and Number: <u>AUT 282</u> Credits: <u>4</u>

Course Title: <u>Drivability and Emissions – OEM</u>

Course Description:

Studies operation, inspection, diagnosis, service and repair of engine management concerns. Continues instruction of the fuel management system emphasizing fuel trim diagnosis, misfire diagnosis, and all levels of emissions control systems. This course is intended for students in an original equipment manufacturer (OEM) training program. Prerequisites: acceptance and good standing in the original equipment manufacturer (OEM) training program and AUT 181 and AUT 184 or program head approval. Lecture 2 hours. Laboratory 8 hours. Total 10 hours per week. 4 credits

General Course Purpose:

This course is intended for students in an OEM training program to provide specific instruction and hands-on practice of the OEM's vehicle and chassis electrical systems. The course focuses on the tools and equipmed6tascoptibe6.600001syste.00000001.Tot[例2a(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(e)42i(

- Output current and voltage waveforms
- Computer networking and multiplexing
- Chassis Electrical Systems
 - o Supplemental restraint systems
 - o Keyless entry/smart key, immobilizer and anti-theft devices
 - o Comfort and convenience features: back up camera, multi-media, etc.
- Other technologies as required by the OEM's specifications

Effective Date/Updated: January 1, 2023

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