AUTO 410M: AUTOMOTIVE MANUFACTURER UPDATE

Originator
dredman

Justification / Rationale
See T.A.

Effective Term
Fall 2023

Credit Status
Noncredit

Subject
AUTO - Automotive Technology

Course Number
410M

Full Course Title
Automotive Manufacturer Update

Short Title
AUTO MANUFACTURER UPDATE

Discipline

Disciplines List
Automotive Technology

Modality
Face-to-Face
Hybrid

Catalog Description
This course offers knowledge and skills relevant to service and repair of the latest vehicle systems and equipment updates provided by the manufacturers. This will enhance the learner's essential skills for employment and advancement within the automotive service industry.

Schedule Description
This course offers knowledge and skills related to vehicle updates provided by the manufacturers which will help learners address customer concerns with their vehicles.

Total Non-Credit Contact Hours
30

In-class Hours
30

Out-of-class Hours
2

Total Course Units
0

Total Semester Hours
0

Override Description
Noncredit override.

Required Text and Other Instructional Materials

Resource Type
Web/Other

Open Educational Resource
Yes

Year
2021

Description
Manufacturer update material will be provided by the instructor. (No cost to the learner)

Class Size Maximum
18

Course Content
This course will cover: safety concerns, function and operation of new systems, research techniques of technical service bulletins, diagnostic forums and service information and role playing scenarios involving customer and technician interaction related to late model vehicle malfunctions.

Course Objectives

	Objectives
Objective 1	List safety procedures and required personal protection equipment (PPE) when diagnosing and repairing a late model vehicle system.
Objective 2	Explain service equipment updates for newly release vehicles.
Objective 3	Locate and follow manufacturer service information procedures related to service and repair of the latest vehicle systems.

Student Learning Outcomes

	Upon satisfactory completion of this course, students will be able to:
Outcome 1	Analyze the root cause of a customer concern a late model vehicle system.
Outcome 2	Explain the function and operation of a given late model vehicle system.

Methods of Instruction

Method	Please provide a description or examples of how each instructional method will be used in this course.
Collaborative/Team	Learners will work in teams to analyze, evaluate and identify safety procedures and personal protection equipment (PPE) within the service information new vehicle systems.
Lecture	Presentation on theory of operation of newly integrated late model vehicle systems.
Laboratory	Explain the importance of and perform a diagnosis a malfunction of a newly integrated late model vehicle system.
Discussion	Demonstrate respect while actively participating in classroom discussions.

Methods of Evaluation

Method	Please provide a description or examples of how each evaluation method will be used in this course.	Type of Assignment
Written homework	Readings and home work from the instructor provided materials (both in and out of class).	In and Out of Class
Student participation/contribution	The lecture will be a two-way interactive discussion requiring input from each learner (both in and out of class).	In and Out of Class

Tests/Quizzes/Examinations	Learners must successfully complete required assessment material (both in and out of class).	In and Out of Class
Other	Out-of-class hours will be accounted for electronically through the learning management system.	Out of Class Only

Assignments

Other In-class Assignments

1. List 5 safety procedures including required PPE when servicing a late model vehicle system.
2. Explanation proper operation of new vehicle systems.
3. Familiarization with new model service equipment.
4. Perform calibration and diagnostic tests of late model vehicle systems.
5. Development of a study-plan for late model vehicle systems.
6. Quiz and review of late model vehicle systems.

Other Out-of-class Assignments

1. Research assignments related to the development of the latest new vehicle systems.
2. Execution of individual study-plans in preparation for manufacturer new vehicle systems exam.
3. Successfully complete a manufacturer new vehicle systems exam.

Grade Methods

Pass/No Pass Only

Distance Education Checklist

Include the percentage of online and on-campus instruction you anticipate.

Online %

50

On-campus %

50

Lab Courses

How will the lab component of your course be differentiated from the lecture component of the course?

The lab activities will be based on learning activities related to the latest vehicle technology.

From the COR list, what activities are specified as lab, and how will those be monitored by the instructor?

The facilitator will supervise all lab content, guiding the learner in productivity and understanding.

How will you assess the online delivery of lab activities?

Laboratory activities will not be delivered in the online setting, only in person.

Instructional Materials and Resources

If you use any other technologies in addition to the college LMS, what other technologies will you use and how are you ensuring student data security?

None.

Effective Student/Faculty Contact

Which of the following methods of regular, timely, and effective student/faculty contact will be used in this course?

Within Course Management System:

Discussion forums with substantive instructor participation
Online quizzes and examinations
Regular virtual office hours
Timely feedback and return of student work as specified in the syllabus
Weekly announcements

External to Course Management System:

Direct e-mail
Posted audio/video (including YouTube, 3cmediasolutions, etc.)
Synchronous audio/video

Briefly discuss how the selected strategies above will be used to maintain Regular Effective Contact in the course.

Regular effective contact will be practiced through online lecture, discussion board postings, email communications, regular announcements, prompt grading and feedback of assignments, and virtual office hours. This contact between the facilitator and learner on a regular basis will enhance learner confidence and understanding and promote critical thinking and analyzation of subject matter.

If interacting with students outside the LMS, explain how additional interactions with students outside the LMS will enhance student learning.

Group discussions, e-mail correspondence, voicemail.

Other Information

Provide any other relevant information that will help the Curriculum Committee assess the viability of offering this course in an online or hybrid modality.

With the uncertainty of the teaching environment, enabling the lecture portion of this course to be delivered in an online setting, while keeping the hands-on portion face-to-face, will ensure learners can access needed training to ensure knowledge and experience is achieved to gain employment in the automotive field.

MIS Course Data

CIP Code

47.0604 - Automobile/Automotive Mechanics Technology/Technician.

TOP Code

094840 - Alternative Fuels and Advanced Transportation Technology

SAM Code

C - Clearly Occupational

Basic Skills Status

Not Basic Skills

Prior College Level

Not applicable

Cooperative Work Experience

Not a Coop Course

Course Classification Status

Other Non-credit Enhanced Funding

Approved Special Class

Not special class

Noncredit Category

Short-Term Vocational

Funding Agency Category

Not Applicable

Program Status

Program Applicable

Transfer Status

Not transferable

General Education Status
Y = Not applicable

Support Course Status
N = Course is not a support course

Allow Audit
Yes

Repeatability
Yes

Repeatability Limit
NC

Repeat Type
Noncredit

Justification
Noncredit courses are repeatable until students achieve the outcomes and objectives of the course.

Materials Fee
No

Additional Fees?
No

Files Uploaded

Attach relevant documents (example: Advisory Committee or Department Minutes)
AdvisoryCommitteeWaiver.docx
CO Approval Letter-Automotive Manufacturer Update 2022 1118.pdf

Approvals

Curriculum Committee Approval Date
10/04/2022

Academic Senate Approval Date
10/13/2022

Board of Trustees Approval Date
11/10/2022

Chancellor's Office Approval Date
11/17/2022

Course Control Number
CCC000634060