

AUTO 390U: SNAP-ON TIRE PRESSURE MONITORING SYSTEM (TPMS)

Originator

dredman

Co-Contributor(s)**Name(s)**

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Justification / Rationale

The Automotive Faculty are creating this course to provide Automotive Program learners with the opportunity to earn industry-recognized certification. This certification will improve their ability to be hired in the automotive industry.

Effective Term

Spring 2023

Credit Status

Noncredit

Subject

AUTO - Automotive Technology

Course Number

390U

Full Course Title

Snap-on Tire Pressure Monitoring System (TPMS)

Short Title

SNAP-ON TPMS

Discipline**Disciplines List**

Automotive Technology

ModalityFace-to-Face
Hybrid**Catalog Description**

This course offers basic knowledge and skills related to industry-standard tire pressure monitoring system (TPMS) operation. The learner will be shown how to locate specifications and procedures applicable to the TPMS. This will enhance one of the required skills for employment and advancement within the automotive service industry.

Schedule Description

This course offers basic knowledge and skills related to industry standard tire pressure monitoring system (TPMS) operation.
Advisory: AUTO 301

Non-credit Hours

6

In-class Hours

6

Total Course Units

0

Total Semester Hours

6

Override Description

Noncredit override.

Prerequisite Course(s)

Advisory: AUTO 301

Required Text and Other Instructional Materials**Resource Type**

Web/Other

Open Educational Resource

Yes

Year

2021

Description

Snap-on study material for the tire pressure monitoring system exam. (No cost to the learner)

Class Size Maximum

21

Entrance Skills

Provide brief descriptions of the components.

Requisite Course Objectives

AUTO 301-Provide a brief description pertaining to major components.

Entrance Skills

Identify major automotive components.

Requisite Course Objectives

AUTO 301-Identify major automotive components.

Course Content

1. Review of tire pressure monitoring systems (TPMS).
2. Locating tire pressure monitoring system (TPMS) specifications in the service information.
3. Understand the process to calibrate a tire pressure monitoring system (TPMS) sensor.
4. Take the Snap-on Tire Pressure Monitoring System (TPMS) exam.

Course Objectives

	Objectives
Objective 1	List the steps to properly inspect a tire pressure monitoring system (TPMS).
Objective 2	Explain how to replace a tire pressure monitoring system (TPMS) sensor.
Objective 3	Locate service manual procedures to reset a tire pressure monitoring system (TPMS) sensor.
Objective 4	Describe the two different types of tire pressure monitoring systems (TPMS).

Student Learning Outcomes

	Upon satisfactory completion of this course, students will be able to:
Outcome 1	Demonstrate how to properly repair a tire pressure monitoring system (TPMS) malfunction.

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 locate and identify safety procedures when servicing a tire pressure monitoring system (TPMS).
Lecture	Presentation of basic function and operation of a tire pressure monitoring system (TPMS).
Laboratory	Each learner retrieve tire pressure monitoring system (TPMS) codes.
Discussion	Learners will participate 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.	In and Out of Class
Student participation/contribution	The lecture will be a two-way interactive discussion requiring input from each learner.	In Class Only
Tests/Quizzes/Examinations	Learners must successfully complete required assessment material.	In and Out of Class

Assignments
Other In-class Assignments

1. List 5 safety practices when servicing a tire pressure monitoring system (TPMS).
2. Why are there two different tire pressure monitoring systems (TPMS)?
3. How to properly install a tire pressure monitoring system (TPMS) sensor.
4. How to properly program a tire pressure monitoring system (TPMS).
5. Participation in discussion related to lecture.
6. Development of a study-plan for the Snap-on tire pressure monitoring system (TPMS) exam.
7. Quiz and review of Snap-on tire pressure monitoring system (TPMS) tools features and functions.

Other Out-of-class Assignments

1. Execution of individual study-plans in preparation for the Snap-on Tire Pressure Monitoring System (TPMS) exam.
2. Taking the Snap-on Tire Pressure Monitoring System (TPMS) 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 will cover a variety of tire pressure monitoring system (TPMS) activities.

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

Lab component of the course will be completed in a laboratory environment on campus under the supervision of an appropriate facilitator.

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?

The learners are responsible for their own login and password information to other sites.

If used, explain how specific materials and resources outside the LMS will be used to enhance student learning.

Each learner will go to the assigned site and follow their personalized study-plan.

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, 3cm mediasolutions, 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

094800 - Automotive 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

No

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

Approvals**Curriculum Committee Approval Date**

3/17/2022

Academic Senate Approval Date

3/24/2022

Board of Trustees Approval Date

4/22/2022

Chancellor's Office Approval Date

5/06/2022

Course Control Number

CCC000631396

