

# AUTO 306: AUTOMOTIVE SERVICE: OIL CHANGE

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**Originator**

dredman

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

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**Justification / Rationale**

The Automotive Faculty are reviewing and/or updating this course to assure compliance with local, State, and Federal regulations; support consistency within the curriculum; practice relevance regarding automotive industry and community; and to make improvements that will strengthen the learning environment this course creates thus benefiting the learners.

**Effective Term**

Fall 2022

**Credit Status**

Noncredit

**Subject**

AUTO - Automotive Technology

**Course Number**

306

**Full Course Title**

Automotive Service: Oil Change

**Short Title**

AUTO OIL CHANGE

**Discipline****Disciplines List**

Automotive Technology

**Modality**Face-to-Face  
Hybrid**Catalog Description**

This course provides theory and hands-on experience in performing key automotive services required by entry-level technicians in an automotive repair facility atmosphere. It is geared for those entering the workforce as an automotive technician.

**Schedule Description**

This course provides theory and hands-on experience in performing key automotive services required by entry-level technicians in an automotive repair facility atmosphere. It is geared for those students entering the workforce as an automotive technician.

Advisory: AUTO 301 Prerequisite: AUTO 305

**Non-credit Hours**

27

**In-class Hours**

18

**Out-of-class Hours**

9

**Total Course Units**

0

**Total Semester Hours**

27

**Override Description**

Noncredit override

**Prerequisite Course(s)**

AUTO 305

Advisory: AUTO 301

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

Web/Other

**Open Educational Resource**

Yes

**Year**

2020

**Description**

Fiat/Chrysler service information.

**Class Size Maximum**

26

**Entrance Skills**

Identify major automotive components.

**Requisite Course Objectives**

AUTO 301-Identify major automotive components.

**Entrance Skills**

Describe shop safety practices and proper procedures regarding handling hazardous material.

**Requisite Course Objectives**

AUTO 305-Describe shop safety practices and proper procedures regarding handling hazardous material.

**Entrance Skills**

Identify basic automotive tools and equipment.

**Requisite Course Objectives**

AUTO 305-Identify basic automotive tools and equipment.

**Course Content**

1. SP2 safety.
2. Shop administrative procedures.
3. Basic vehicle services.
4. Filter and fluid replacement.
5. 30\60\90K mile services.
6. Reset maintenance lights.
7. Automotive industry web-based training modules.

**Course Objectives**

Objectives	
Objective 1	Comply with all shop safety requirements.
Objective 2	Complete work order to include customer information, vehicle identifying information, customer concern, related service history, cause, and correction.
Objective 3	Locate and use paper and electronic information.
Objective 4	Locate and use Technical Service Bulletins (TSBs).
Objective 5	Define the purpose and use of the VIN, engine numbers, and date code.
Objective 6	Demonstrate use of the three C's (concern, cause, and correction).
Objective 7	Check and adjust all vehicle fluids using manufacturer recommended fluids.
Objective 8	Perform a detailed vehicle condition inspection.
Objective 9	Inspect and replace air filter.
Objective 10	Perform oil and filter change.
Objective 11	Inspect tires; check and adjust air pressure.
Objective 12	Complete SP2 safety exams.

**Student Learning Outcomes**

Upon satisfactory completion of this course, students will be able to:	
Outcome 1	Perform an engine oil and filter change on a given vehicle within 20 minutes.
Outcome 2	Locate service information required to perform engine oil and filter change.
Outcome 3	Describe safety procedures related to performing an engine oil and filter change.

**Methods of Instruction**

Method	Please provide a description or examples of how each instructional method will be used in this course.
Laboratory	Participate in lab-based activities.
Discussion	Participate in classroom discussions.
Demonstration, Repetition/Practice	Demonstrate their ability to correctly perform a given task not limited to laboratory assignments, interactive role-play and group activities.
Lecture	Each class is half lecture covering multiple aspects of course content.
Collaborative/Team	Work in a team setting while performing certain lab activities and researching information.
Technology-based instruction	Virtual Reality: Diagnostic test equipment, computer-based tools, and virtual reality scenarios.

**Methods of Evaluation**

Method	Please provide a description or examples of how each evaluation method will be used in this course.	Type of Assignment
Student participation/contribution	Work in a team setting while performing lab activities.	In and Out of Class
Tests/Quizzes/Examinations	Used to evaluate learners' knowledge and understanding of the information presented. Examples of these are not limited to quizzes, exams, presentations, research, or projects.	In and Out of Class
Group activity participation/observation	Learners will be observed activities in lab, group activities, information research, collaborative assignments, and other activities assigned.	In and Out of Class
Presentations/student demonstration observations	Participate in role-play activities, reports, and possibly be required to do a visual presentation.	Out of Class Only
Laboratory projects	Participate in lab based activities to complete engine oil and filter change.	In Class Only

Written homework	Research of service information related to engine oil and filter change. Homework: multiple-choice questions, fill in the blank and essay questions to be graded each week.	Out of Class Only
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. Review homework: multiple-choice questions, fill in the blank and essay questions to be graded each session.
2. Review SP2 safety tests.
3. Notes on lecture.
4. Participation in discussion related to topic of lecture.
5. Review and discuss vehicle engine oil and filter change to be evaluated by the instructor during lab time.
6. Must develop teamwork skills through classroom interaction and discussion.

### Other Out-of-class Assignments

1. Readings from related service information.
2. Homework from service information: multiple-choice questions, fill in the blank and essay questions to be graded each session.
3. Assigned readings and written summaries from selected service information.
4. Written summaries and analysis of assigned websites.
5. Must complete a course project consisting an essay describing, analyzing and summarizing a selected topic, including out of class research and fieldwork.
6. Automotive industry web-based training modules.

## 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 require hands-on, live or simulated vehicle in a live or simulated setting.

**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?**

SP2 online safety training.

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

SP2 - free account provided to all used to ensure the learners ability to distinguish safe working practices and conditions from unsafe practices and conditions.

## 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  
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.**

Interaction between instructor and learner will help to enhance learning and understanding of subject material.

## 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 objectives and outcomes of the course.

**Materials Fee**

No

**Additional Fees?**

No

**Approvals****Curriculum Committee Approval Date**

03/17/2022

**Academic Senate Approval Date**

03/24/2022

**Board of Trustees Approval Date**

04/22/2022

**Chancellor's Office Approval Date**

7/05/2020

**Course Control Number**

CCC000618742

**Programs referencing this course**Automotive Oil Change Certificate of Completion (<http://catalog.collegeofthedesert.eduundefined/?key=325>)