

## SchSkill Trd, Appr & Renew Tech

### Basic Automotive

2021-22 Academic Year

Program	Year	Semester
START-Trades Fundamentals	1	1

<b>Course Code:</b> TFBA 1302	<b>Course Equiv. Code(s):</b> N/A
<b>Course Hours:</b> 42	<b>Course GPA Weighting:</b> 3
<b>Prerequisite:</b> N/A	
<b>Corequisite:</b> N/A	
<b>Laptop Course:</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
<b>Delivery Mode(s):</b> In class <input type="checkbox"/> Online <input type="checkbox"/> Hybrid <input checked="" type="checkbox"/> Correspondence <input type="checkbox"/>	
<b>Authorized by (Dean or Director):</b> Rebecca Milburn	<b>Date:</b> June 2021

Prepared by		
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## Course Description:

Students working in the Automotive Basics course will participate in both a theory and shop based learning environment. They will be introduced to a wide cross section of the automotive trade requirements ranging from basic safety and tool usage to vehicle identification and lifting, electrical fundamentals and braking systems.

## Subject Eligibility for Prior Learning Assessment & Recognition (PLAR):

Prior Learning Assessment and Recognition (PLAR) is a process a student can use to gain college credit(s) for learning and skills acquired through previous life and work experiences. Candidates who successfully meet the course learning outcomes of a specific course may be granted credit based on the successful assessment of their prior learning. The type of assessment method (s) used will be determined by subject matter experts. Grades received for the PLAR challenge will be included in the calculation of a student's grade point average.

The PLAR application process is outlined in <http://www.durhamcollege.ca/plar>. Full-time and part-time students must adhere to all deadline dates. Please email: [PLAR@durhamcollege.ca](mailto:PLAR@durhamcollege.ca) for details.

### PLAR Eligibility

Yes  No

### PLAR Assessment (if eligible):

- Assignment
- Exam
- Portfolio
- Other

## Course Learning Outcomes

Course Learning Outcomes contribute to the achievement of Program Learning Outcomes for courses that lead to a credential (e.g. diploma). A complete list of Vocational/Program Learning Outcomes and Essential Employability Skill Outcomes are located in each Program Guide.

### Course Specific Learning Outcomes (CLO)

Student receiving a credit for this course will have reliably demonstrated their ability to:

- CLO1 Identify basic automotive components and functions for all vehicles.
- CLO2 Explain operating principles of selected automotive systems using proper automotive terms.
- CLO3 Identify educational pathways and career opportunities within the automotive trades including both post-secondary, apprenticeship models, and various job opportunities within the profession.
- CLO4 Complete basic automotive projects using service information and appropriate tools, techniques, equipment, and supplies.
- CLO5 Recognize the importance of ethical behaviour in an automotive professional setting.
- CLO6 Apply proper safety procedures and processes while completing automotive projects.

### Essential Employability Skill Outcomes (ESSO)

This course will contribute to the achievement of the following Essential Employability Skills:

- EES 1. Communicate clearly, concisely and correctly in the written, spoken, and visual form that fulfills the purpose and meets the needs of the audience.
- EES 2. Respond to written, spoken, or visual messages in a manner that ensures effective communication.
- EES 3. Execute mathematical operations accurately.
- EES 4. Apply a systematic approach to solve problems.
- EES 5. Use a variety of thinking skills to anticipate and solve problems.
- EES 6. Locate, select, organize, and document information using appropriate technology and information systems.
- EES 7. Analyze, evaluate, and apply relevant information from a variety of sources.
- EES 8. Show respect for the diverse opinions, values, belief systems, and contribution of others.
- EES 9. Interact with others in groups or teams in ways that contribute to effective working relationships and the achievement of goals.
- EES 10. Manage the use of time and other resources to complete projects.
- EES 11. Take responsibility for one's own actions, decisions, and consequences.

## Evaluation Criteria:

The Course Learning Outcomes and Essential Employability Skills Outcomes are evaluated by the following evaluation criterion.

Evaluation Description	Course Learning Outcomes	EESOs	Weighting
Assignment	CLO4, CLO5, CLO6	EES1, EES2, EES10	15
Shop Sheet activities	CLO1, CLO2, CLO4, CLO5, CLO6	EES1, EES2, EES3, EES4, EES7, EES9, EES10	40
Quiz	CLO1, CLO2	EES1, EES2, EES3	15
In class activities	CLO1, CLO2, CLO3, CLO5, CLO6	EES2, EES3, EES7, EES10	10
Final Test	CLO1, CLO2, CLO3, CLO5, CLO6	EES1, EES2, EES3, EES4, EES10	20
<b>Total</b>			<b>100%</b>

### Notes:

1. In-Process activities occur in class and will only be given once. They cannot be made up or supplemented. Any missed in-class activities will be assigned a mark of "0" (zero).
2. Due to shop space and timing concerns, shop assignments must be completed by the due date specified by the instructor.
3. CSA approved safety boots and safety glasses with side shields are required. Long pants and other appropriate clothing must be worn in the shop at all times. Students who are not wearing the appropriate clothing will be asked to leave the shop area and will receive zero on the assigned project for that day.

## Required Text(s) and Supplies:

1. Course materials will be provided by the faculty member.

## Recommended Resources (purchase is optional):

N/A

# Policies and Expectations for the Learning Environment:

## General Policies and Expectations:

General College policies related to	General policies related to
+ Acceptable Use of Information Technology	+ attendance
+ Academic Policies	+ absence related to tests or assignment due dates
+ Academic Honesty	+ excused absences
+ Student Code of Conduct	+ writing tests and assignments
+ Students' Rights and Responsibilities can be found on-line at <a href="http://www.durhamcollege.ca/academicpolicies">http://www.durhamcollege.ca/academicpolicies</a>	+ classroom management can be found in the Program Guide (full time programs only) in MyCampus <a href="http://www.durhamcollege.ca/mycampus/">http://www.durhamcollege.ca/mycampus/</a>

## Course Specific Policies and Expectations:

### Course Specific Policies and Expectations:

- Safety glasses, safety footwear, full length pants and/or coveralls must be worn in the shop at all times.

Please refer to the Student Program Guide for the following:

- Student Success Strategies.
- Conduct and behaviour in the classroom and or shop.
- Cell phones, pagers, cameras and similar devices are not to be used or operated in the shop or classroom unless approved by the instructor.
- Attendance requirements.
- Academic Alerts.
- Assignments due.
- Lab work/shop work/ projects and homework.

## General Course Outline Notes:

<ol style="list-style-type: none"><li>1. Students should use the course outline as a learning tool to guide their achievement of the learning outcomes for this course. Specific questions should be directed to their individual professor.</li><li>2. The college considers the electronic communication methods (i.e. DC Mail or DC Connect) as the primary channel of communication. Students should check the sources regularly for current course information.</li><li>3. Professors are responsible for following this outline and facilitating the learning as detailed in this outline.</li><li>4. Course outlines should be retained for future needs (i.e. university credits, transfer of credits etc.)</li><li>5. A full description of the Academic Appeals Process can be found at <a href="https://durhamcollege.ca/about/governance/policies/academic-policies">https://durhamcollege.ca/about/governance/policies/academic-policies</a> .</li><li>6. Faculty are committed to ensuring accessible learning for all students. Students who would like assistance with academic access and accommodations in accordance with the Ontario Human Rights Code should register with the Access and Support Centre (ASC). ASC is located in room SW116, Oshawa Campus and in room 180 at the Whitby Campus. Contact ASC at 905-721-3123 for more information.</li><li>7. Durham College is committed to the fundamental values of preserving academic integrity. Durham College and faculty members reserve the right to use electronic means to detect and help prevent plagiarism. Students agree that by taking this course all assignments could be subject to submission either by themselves or by the faculty member for a review of textual similarity to Turnitin.com. Further information about Turnitin can be found on the Turnitin.com Web site.</li></ol>
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# Learning Plan

The Learning Plan is a planning guideline. Actual delivery of content may vary with circumstances.

Students will be notified in writing of changes that involve the addition or deletion of learning outcomes or evaluations, prior to changes being implemented, as specified in the Course Outline Policy and Procedure at Durham College.

Wk.	Hours:	Delivery:
	1	In Class
1	<p><b>Intended Learning Objectives</b></p> <p>Course introduction and overview</p> <ul style="list-style-type: none"> <li>- Discuss course outline, evaluation method and assignments</li> <li>- Review course expectations and student conduct policies</li> <li>- Review resources to be used in the course</li> <li>- Introduction to the automotive industry</li> </ul> <p>Shop Safety</p> <ul style="list-style-type: none"> <li>- Review general safety, procedures, and other safety protocols in an automotive shop environment.</li> <li>- Review Personal Protective Equipment requirements</li> <li>- Discuss WHMIS, SDS and the proper handling of hazardous materials including aerosol, brake cleaner, fluids, oil, coolant, washer-fluid, and transmission-fluid.</li> </ul>	
	<p><b>Intended Learning Activities</b></p> <p>Lecture Discussion</p>	
	<p><b>Resources and References</b></p> <p>Course Outline Power Point</p>	
	<p><b>Evaluation</b></p>	
Wk.	Hours:	Delivery:
	2	Shop
1	<p><b>Intended Learning Objectives</b></p> <p>Shop Lab Orientation:</p> <ul style="list-style-type: none"> <li>- Tour of the Automotive Shop Lab.</li> </ul>	
	<p><b>Intended Learning Activities</b></p> <p>Discussion Lab Activity: Begin Shop Sheet Orientation</p>	
	<p><b>Resources and References</b></p> <p>Shop sheets and handouts provided by instructor</p>	
	<p><b>Evaluation</b></p>	

<b>Wk.</b>	<b>Hours:</b> 1	<b>Delivery:</b> In Class
2	<b>Intended Learning Objectives</b>	
	Basic Tool Identification and Maintenance - Introduction to tools and equipment used in the automotive industry - Discuss basic hand tools, power tools, and explain how they are used. - Discuss automotive equipment and explain how they are used. - Discuss general tools and equipment safety.	
	<b>Intended Learning Activities</b>	
	Lecture Discussion	
2	<b>Resources and References</b>	
	Power Point	
	<b>Evaluation</b>	
<b>Wk.</b>	<b>Hours:</b> 2	<b>Delivery:</b> Shop
2	<b>Intended Learning Objectives</b>	
	Basic Tool Identification and Maintenance - Locate toolbox and review procedures for lab use - Identify and discuss proper use of hand tools, and power tools including wrenches, ratchets, sockets, screwdrivers, pliers, air tools, saws, grinders, and drills - Identify and discuss proper use of automotive equipment and proper maintenance procedures - Demonstrate tool calibration and oiling procedures. - Apply general tool and equipment safety	
	<b>Intended Learning Activities</b>	
	Discussion Lab Activity: Complete Shop Sheet Orientation	
2	<b>Resources and References</b>	
	Shop sheets and handouts provided by instructor	
	<b>Evaluation</b>	<b>Weighting</b>
	Lab Activity: Shop Sheet activities	5%

<b>Wk.</b>	<b>Hours:</b>	<b>Delivery:</b>
	1	In Class
3	<b>Intended Learning Objectives</b>	
	Hardware, Fasteners, Drills and Thread Repair - Introduce measuring tools, precision measuring tools and explain the metric system. - Explain the characteristics of fasteners and the reason for fastener failure - Explain how drill bits, taps and threads, dies are used - Discuss how fasteners are repaired	
	<b>Intended Learning Activities</b>	
	Lecture Discussion Shop Safety Quiz 1	
<b>Resources and References</b>		
Power Point		
<b>Evaluation</b>		<b>Weighting</b>
Quiz: Quiz		5%
<b>Wk.</b>	<b>Hours:</b>	<b>Delivery:</b>
	2	Shop
3	<b>Intended Learning Objectives</b>	
	Hardware, Fasteners, Drills and Thread Repair - Demonstrate how to use precision measuring tools - Demonstrate how to use a drill press, hacksaw, file, tap and dye. - Demonstrate how to use automotive equipment  Vehicle Systems and Identification - Identify vehicle systems - Locate vehicle identification number, emission labels, tire labels, belt routing diagram, vacuum lines diagram, and SPO labels (GM vehicles).	
	<b>Intended Learning Activities</b>	
	Discussion Lab Activity: Complete Shop Sheet Tool and Equipment Identification	
<b>Resources and References</b>		
Shop sheets and handouts provided by instructor		
<b>Evaluation</b>		



<b>Wk.</b>	<b>Hours:</b>	<b>1</b>	<b>Delivery:</b>	<b>In Class</b>
4	<b>Intended Learning Objectives</b>			
	Service Information and Manuals - Review components of a service manual - Differentiate between appropriate and inappropriate forms of automotive service resources. - Explain the ethical repercussions of using inappropriate forms of automotive service resources.			
	<b>Intended Learning Activities</b>			
	Lecture Discussion Research Assignment (Due Date TBA)			
<b>Resources and References</b>				
Power Point				
<b>Evaluation</b>		<b>Weighting</b>		
Assignment: Assignment		15%		
<b>Wk.</b>	<b>Hours:</b>	<b>2</b>	<b>Delivery:</b>	<b>Shop</b>
4	<b>Intended Learning Objectives</b>			
	Lifting Equipment and Air Compressors - Introduce and navigate Shop Key 5 and AllData service manual - Demonstrate proper vehicle lifting techniques using floor jacks and jack stands - Locate designated lifting points to ensure proper lifting techniques.			
	<b>Intended Learning Activities</b>			
	Discussion Lab Activity: Complete Shop Sheet Tool and Equipment Identification - Complete Navigation Activity - Apply vehicle lifting techniques			
<b>Resources and References</b>				
Shop sheets and handouts provided by instructor Shop Key 5				
<b>Evaluation</b>		<b>Weighting</b>		
Lab Activity: Shop Sheet activities		5%		

<b>Wk.</b>	<b>Hours:</b>	<b>1</b>	<b>Delivery:</b>	<b>In Class</b>
5	<b>Intended Learning Objectives</b>			
	Electrical Fundamentals - Introduce basic electrical theory including electron flow, conductors, insulators, control, and protection devices - Explain voltage, current and resistance - Explain types of circuits (Series, Parallel, and Series Parallel) - Explain the difference between AC and DC			
	<b>Intended Learning Activities</b>			
	Lecture Discussion Ohms Law Worksheet			
<b>Resources and References</b>				
Power Point				
<b>Evaluation</b>			<b>Weighting</b>	
In Process: In class activities			5%	
<b>Wk.</b>	<b>Hours:</b>	<b>2</b>	<b>Delivery:</b>	<b>Shop</b>
5	<b>Intended Learning Objectives</b>			
	Electrical Fundamentals - Explain how a multimeter is used - Using a circuit board, measure current, voltage, and resistance in a circuit using Ohm's Law (apply the rules in ohm's law) - Use a multi-meter to measure the conventional-flow			
	<b>Intended Learning Activities</b>			
	Discussion Lab Activity: Complete Shop Sheet - Circuit board (series, parallel and series parallel)			
<b>Resources and References</b>				
Shop sheets and handouts provided by instructor				
<b>Evaluation</b>			<b>Weighting</b>	
Lab Activity: Shop Sheet activities			5%	

<b>Wk.</b>	<b>Hours:</b>	<b>Delivery:</b>
	1	In Class
6	<b>Intended Learning Objectives</b> Battery Fundamental -Introduce battery types (deep-cycle, low maintenance, maintenance-free/low water loss, AGM, Gel) - Explain the purpose of a battery - Identify battery parts and explain its operation - Discuss reasons for battery failure	
	<b>Intended Learning Activities</b> Lecture Discussion	
	<b>Resources and References</b> Power Point	
	<b>Evaluation</b>	
<b>Wk.</b>	<b>Hours:</b>	<b>Delivery:</b>
	2	Shop
6	<b>Intended Learning Objectives</b> Battery Fundamentals - Demonstrate battery testing - Demonstrate how to boost a battery - Explain the proper maintenance and care of a battery  Electrical Wiring and Insulation - Explain the importance of wires and insulation - Discuss the different types of connectors - Discuss the different types of solder	
	<b>Intended Learning Activities</b> Discussion Lab Activity: Complete Shop Sheet Soldering Wires	
	<b>Resources and References</b> Shop sheets and handouts provided by instructor	
	<b>Evaluation</b> Lab Activity: Shop Sheet activities	<b>Weighting</b> 5%

<b>Wk.</b>	<b>Hours:</b> 1	<b>Delivery:</b> In Class
7	<b>Intended Learning Objectives</b> Engine Fundamentals - Discuss engine classifications and types - Explain basic engine operation including the four-stroke cycle - Identify engine components - Explain why engine lubrication is necessary for proper engine performance - Differentiate between the types of lubricating systems and engine designs (inline, V6, opposed)	
	<b>Intended Learning Activities</b> Lecture Discussion Electrical Quiz 2	
	<b>Resources and References</b> Power Point	
	<b>Evaluation</b> Quiz: Quiz	<b>Weighting</b> 5%
<b>Wk.</b>	<b>Hours:</b> 2	<b>Delivery:</b> Shop
7	<b>Intended Learning Objectives</b> Engine Fundamentals - Explain the steps to engine disassembly and/or reassembly and the necessary measuring tools required - Disassemble engine, measure parts, components and prepare for reassemble	
	<b>Intended Learning Activities</b> Discussion Lab Activity: Complete Shop Sheet - Begin Engine Disassembly and Measurement	
	<b>Resources and References</b> Shop sheets and handouts provided by instructor	
	<b>Evaluation</b> Lab Activity: Shop Sheet activities	
<b>Wk.</b>	<b>Hours:</b> 1	<b>Delivery:</b> In Class
8	<b>Intended Learning Objectives</b> Engine Fundamentals - Discuss engine lubricants and filters used for engine operation - Discuss Cooling system, belts, and hoses - Discuss automotive plumbing (tubing and pipes)	
	<b>Intended Learning Activities</b> Lecture Discussion	
	<b>Resources and References</b> Power Point	
	<b>Evaluation</b>	

<b>Wk.</b>	<b>Hours:</b> 2	<b>Delivery:</b> Shop
8	<b>Intended Learning Objectives</b> Engine Fundamentals - Continue engine reassembly according to manufacturer procedures	
	<b>Intended Learning Activities</b> Discussion Lab Activity: Complete Shop Sheet - Begin Engine Reassembly	
	<b>Resources and References</b> Shop sheets and handouts provided by instructor	
	<b>Evaluation</b> Lab Activity: Shop Sheet activities	<b>Weighting</b> 5%
<b>Wk.</b>	<b>Hours:</b> 1	<b>Delivery:</b> In Class
9	<b>Intended Learning Objectives</b> Manual Transmission and Clutch Fundamentals - Explain the purpose of a clutch - Identify clutch parts - Explain clutch operation including clutch release methods and hydraulic clutch operation	
	<b>Intended Learning Activities</b> Lecture Discussion Complete Gear Ratio Worksheet	
	<b>Resources and References</b> Power Point	
	<b>Evaluation</b> In Process: In class activities	<b>Weighting</b> 5%
<b>Wk.</b>	<b>Hours:</b> 2	<b>Delivery:</b> Shop
9	<b>Intended Learning Objectives</b> Manual Transmission and Clutch Fundamentals- Identify components of a clutch - Identify components of a clutch - Discuss reasons for clutch failure - Demonstrate clutch operation - Disassemble manual transmission	
	<b>Intended Learning Activities</b> Discussion Lab Activity: Complete Shop Sheet - Begin Manual Transmission Disassembly and calculate gear ratios	
	<b>Resources and References</b> Shop sheets and handouts provided by instructor Subaru Transmission Manual	
	<b>Evaluation</b>	

<b>Wk.</b>	<b>Hours:</b>	<b>1</b>	<b>Delivery:</b>	<b>In Class</b>
10	<b>Intended Learning Objectives</b>			
	Manual Transmission and Clutch Fundamentals			
	<ul style="list-style-type: none"> <li>- Explain the purpose of a manual transmission</li> <li>- Describe the relationship between gears</li> <li>- Understand the basic types of gears</li> <li>- Identify all parts of a transmission</li> </ul>			
	<b>Intended Learning Activities</b>			
	Lecture Discussion			
	<b>Resources and References</b>			
	Power Point			
	<b>Evaluation</b>			
<b>Wk.</b>	<b>Hours:</b>	<b>2</b>	<b>Delivery:</b>	<b>Shop</b>
10	<b>Intended Learning Objectives</b>			
	Manual Transmission and Clutch Fundamentals			
	<ul style="list-style-type: none"> <li>- Identify internal components such as synchronizers, shifting forks and rods, input shaft, output/counter shaft and gears</li> <li>- Calculate gear ratios</li> <li>- Trace the power flow through a manual transmission</li> <li>- Reassemble manual transmission</li> </ul>			
	<b>Intended Learning Activities</b>			
	Discussion Lab Activity: Complete Shop Sheet - Reassemble Manual Transmission			
	<b>Resources and References</b>			
	Shop sheets and handouts provided by instructor Subaru Transmission Manual			
	<b>Evaluation</b>		<b>Weighting</b>	
	Lab Activity: Shop Sheet activities		5%	

<b>Wk.</b>	<b>Hours:</b>	<b>1</b>	<b>Delivery:</b>	<b>In Class</b>
11	<b>Intended Learning Objectives</b>			
	Steering, Suspension, and Brake Fundamentals			
	<ul style="list-style-type: none"> <li>- Explain the purpose of tires</li> <li>- Explain tire construction (tubeless tires, tread and tread material, tire cord, tire ply design, sidewall markings, load rating, tire life and age)</li> <li>- Discuss the different types of tires</li> <li>- Explain the importance of tire maintenance and the benefits of proper tire rotation</li> <li>- Discuss wheels, lug studs, lug nuts, lug bolt patterns and valve stems</li> <li>- Discuss tire pressure monitoring systems</li> </ul>			
	<ul style="list-style-type: none"> <li>- Explain why different types of suspensions exist (short and long arm, McPherson strut, and leaf springs)</li> <li>- Understand the basic suspension system in selected models</li> </ul>			
<b>Intended Learning Activities</b>				
Lecture Discussion				
<b>Resources and References</b>				
Power Point				
<b>Evaluation</b>				
<b>Wk.</b>	<b>Hours:</b>	<b>2</b>	<b>Delivery:</b>	<b>Shop</b>
11	<b>Intended Learning Objectives</b>			
	Steering, Suspension, and Brake Fundamentals			
	<ul style="list-style-type: none"> <li>- Demonstrate tire dismount and balancing</li> <li>- Demonstrate tire repair</li> <li>- Demonstrate tire installation</li> <li>- Rotate tires using the proper rotating process and identify tire labels using company stamps and manufacturer manuals</li> </ul>			
	<ul style="list-style-type: none"> <li>- Identify suspension components</li> <li>- Identify steering components</li> </ul>			
<b>Intended Learning Activities</b>				
Discussion Lab Activity: Complete Shop Sheet Tire Inspection, Service and Repair				
<b>Resources and References</b>				
Shop sheets and handouts provided by instructor Shop Key 5				
<b>Evaluation</b>			<b>Weighting</b>	
Lab Activity: Shop Sheet activities			5%	

<b>Wk.</b>	<b>Hours:</b> 1	<b>Delivery:</b> In Class
12	<b>Intended Learning Objectives</b> Steering, Suspension and Brake Fundamentals - Explain the purpose of a braking systems - Identify brake components and discuss heat tolerance and friction materials - Discuss hydraulic brake operation - Understand the relationship between suspension, steering and brake systems	
	<b>Intended Learning Activities</b> Lecture Discussion Manual Transmissio Quiz 3	
	<b>Resources and References</b> Power Point	
	<b>Evaluation</b> Quiz: Quiz	<b>Weighting</b> 5%
<b>Wk.</b>	<b>Hours:</b> 2	<b>Delivery:</b> Shop
12	<b>Intended Learning Objectives</b> Steering, Suspension and Brake Fundamentals - Demonstrate braking operation using Consulab Trainer - Fabricate a brake line using proper tools	
	<b>Intended Learning Activities</b> Discussion Lab Activity:Complete Shop Sheet - Begin Brake Flare	
	<b>Resources and References</b> Shop sheets and handouts provided by instructor	
	<b>Evaluation</b>	
<b>Wk.</b>	<b>Hours:</b> 1	<b>Delivery:</b> In Class
13	<b>Intended Learning Objectives</b> Future Career Opportunities in the Automotive Trade/ Final Exam Review -Review the benefits of a future career in the automotive trade -Understand the automotive apprenticeship process -Explain other sectors in the automotive industry	
	<b>Intended Learning Activities</b> Lecture Discussion	
	<b>Resources and References</b> Power Point	
	<b>Evaluation</b>	



<b>Wk.</b>	<b>Hours:</b> 2	<b>Delivery:</b> Shop
13	<b>Intended Learning Objectives</b> Overall Maintenance of the Vehicle -Understand what to look for on selected models -Check all fluids on selected car models -Change oil on selected car models -Check tire pressure on selected car models -Check and change filters on selected car models	
	<b>Intended Learning Activities</b> Discussion Lab Activity: Complete Shop Sheet - Finish Brake Flare	
	<b>Resources and References</b> Shop sheets and handouts provided by instructor	
	<b>Evaluation</b> Lab Activity: Shop Sheet activities	<b>Weighting</b> 5%
<b>Wk.</b>	<b>Hours:</b> 1	<b>Delivery:</b> In Class
14	<b>Intended Learning Objectives</b> Final Test	
	<b>Intended Learning Activities</b> Final Test	
	<b>Resources and References</b> N/A	
	<b>Evaluation</b> Test: Final Test	<b>Weighting</b> 20%
<b>Wk.</b>	<b>Hours:</b> 2	<b>Delivery:</b> Shop
14	<b>Intended Learning Objectives</b> Shop Sheet Completion	
	<b>Intended Learning Activities</b> Completion of shop sheets	
	<b>Resources and References</b> N/A	
	<b>Evaluation</b>	