VICTOR VALLEY COLLEGE SYLLABUS

FALL 2018

# Course No.: Auto 95A Course Title: Automotive Laboratory Units: 1

# Section No.: 66799 Class Hours: 8AM to 2:30PM Days: Saturday

# Instructor Name: Todd Kuhns Cell No: 760-578-0823

# E-mail Address: Todd.Kuhns@vvc.edu Bldg.: 64 Room No.: Shop

## FALL CALENDAR

**FALL Term Begins August 27**

**Labor Day Holiday (college closed) September 3**

**Veteran’s Day Holiday (college closed) November 12**

**Thanksgiving Holiday (college closed) November 22-24**

**FALL Term Ends December 14**

**Sixteen (16) week term August 28 – December 16**

**Off-Campus Sixteen (16) week term August 28 – December 16 (Does not follow VVC calendar,**

 **see that site’s calendar for holidays)**

**First Twelve (12) week term August 27 - November 17**

**Second Twelve (12) week term September 24 – December 14**

**First Eight (8) week term August 27 – October 20**

**Second Eight (8) week term October 22 – December 14**

## WITHDRAWAL POLICY

**NOTE** – **CAMPUS IS CLOSED and** **CLASSES WILL NOT BE HELD ON CAMPUS THE FOLLOWING DATES:**

**September 3rd, November 10th, 11th, 22nd, 23rd, 24th**

STATEMENT OF ACCESS: Students with special needs are encouraged to meet with instructors to discuss the opportunity for academic accommodation and referral to Disabled Students Programs and Services (DSPS) and services per Administrative Procedure (AP 3440)

**Visit Victor Valley College online at** [**www.vvc.edu**](http://www.vvc.edu/)

## Prerequisite:

NONE

## Textbook:

NONE

## Course Description:

A laboratory class to develop skills in engine repair, tune up, emissions, electrical, suspension, brakes, and general maintenance procedures.

## Course Objectives:

Upon completion of the course the student should be able to:

1.Recognize and identify shop safety, environmental hazards and

sustainable environmental practices in an automotive shop

a. Lab Activities

## Student Learning Outcomes:

Upon completion of the course the student can:

1.Safely and responsibly perform general vehicle repairs while

minimizing impact on the environment.

2.Determine and perform necessary general repairs on most makes and models.

Attendance Policy: (Class attendance is not a measure of performance or proficiency. Whether a student is just physically present in the class is not a valid basis for grading. Reference Title 5 Section 55002 of the California Code of Regulations: (A) Grading Policy. The course provides for measurement of student performance in terms of stated course objectives and culminates in a formal, permanently recorded grade based upon uniform standards in accordance with section 55758 of this Division. The grade is based on demonstrated proficiency in the subject matter and the ability to demonstrate that proficiency, at least in part, by means of written expression that may include essays, or, in courses where the curriculum committee deems them to be appropriate, by problem solving exercises or skills demonstrations by students.)

## Grading Policy:

|  |  |
| --- | --- |
| **Grade Value** | **Grading Scale** |
| **SP-2 (Safety)** |  **10%** | **100% thru 90%** | **A** |
|  |  |  **89% thru 80%** | **B** |
| **Lab Assignments** | **90%** |  **79% thru 70%** | **C** |
|  |  |  **69% thru 60%** | **D** |
|  |  |  **59% or below** | **F** |

Victor Valley College Automotive Program is required by law and the college rules to have all students pass (80%) required safety tests BEFORE they can enter the work area of the Automotive Laboratory. The department uses a nationally recognized and industry approved test to satisfy this requirement. These tests can be found on the sp-2.org website. I require the following tests (see below) to be satisfactorily completed before any lab work can be performed. These sp-2 tests are updated to reflect any changes in OSHA, state, or EPA standards. Since some students have not taken the entire course and just the finals for some time and they have missed out on some recent changes and because of this you are required to view each module and take each quiz before attempting the final for each of the two test areas.

The two I require are:

1. Mechanical Safety
2. Mechanical Pollution Prevention

Here is a link to a short video that explains how to log on and take these required tests. Copy and paste this link into your browser.

<https://www.youtube.com/watch?v=4pxqOn7gt9E>

The video will let you know that the: Account number is **78442**

 Password is **fact**

 Your Personal Pin is your **last 6 digits of your student ID #**



Laboratory Schedule:

**Laboratory**: Lab work must be authorized by your instructor **only!!!!** The work being done in the class during the semester must pertain to course objectives. All work must be documented by the hand written work order system at the service desk and a NATEF task sheet. Labs will be based on the content in the chapter we are studying and the vehicles that are available during class. Lab assignment and documents will be provided from your instructor during class time.

**Victor Valley Community College**

**Automotive Department**

**Shop Cleaning Program**

It is important that the shop be kept clean at all times. This makes the shop a safe environment for all students and faculty. You will find that most shops require their employees to keep a clean work area. Your first job may be cleaning a shop. You will find that if you take the time to clean up at the end of the day, you start the next day ready to work as soon as you arrive. Your work area is safer and you work more efficiently.

Students are required to wear safety glasses while in the shop. As you are cleaning, move equipment and clean under it. If you desire to use compressed air, air nozzles air available in the tool crib. If you are not sure how to clean an area or equipment, feel free to ask an Instructor Assistant or an Instructor.

**The cleaning tasks in the Automotive Department are divided into areas.**

* Entry area and service writing desk
* main shop
* Equipment, fixed and movable
* Alignment racks
* Concrete apron outside the roll up doors
* Machine shop
* Tables

**Mopping Procedure**

1. Take a mop and bucket to the janitor’s closet
2. Fill the bucket with hot water
3. Dip the mop head in the water and wring it out.
4. Mop the floor while dipping the mop head in the water as needed
5. When you are finished, empty the mop bucket in the sink
6. Rinse out the mop head and bucket
7. Hang the mop over the empty mop bucket on the rack, mop head down

**Procedure for Cleaning Spilled Liquids**

1. Sprinkle the absorbent on the area of the spill
2. Wait a few minutes for the absorbent to work.
3. Sweep up the absorbent and place it in the used absorbent container
4. Wipe up remaining residue with shop rags
5. Ensure that the floor is free of oil reside or other hazardous waste.
6. Mop area with Hot water

7. Dispose of water in shop sink located in janitor’s area.

**Sweeping Shop Floor**

* Brooms are located in the janitor’s closet next to the tool crib
* Sweep from the area of the tool crib out to the Roll up Doors.
* Use compressed air to clean around fixed equipment
* If it is windy, close the doors and work toward the classroom
* Return broom to janitor’s Closet

**Equipment, Tables and Tire Machines**

* Obtain a bottle of spray cleaner and a blues shop rag from the tool crib
* Spray the surface and wipe clean, it may take more than one rag to get the surface clean

**Alignment Racks**

* Wipe down the metal surfaces
* Raise the racks and clean the floor with a mop and hot water

**Concrete Apron**

* Sweep to the edge where the asphalt begins
* Mop the concrete surface in the same manner as the shop floor

**Victor Valley College Automotive Technology Department**

**Student Policies and Procedures**



In addition to the following policies and procedure, students are governed by and expected to abide by the general rules, code of ethics and conducts of Victor Valley College. Please refer to the student handbook for complete information. Your signature at the end of this document indicates your acknowledgment to abide by these policies and procedures. Your signature also indicates your VOLUNTARY ACTIVITY WAIVER, RELEASE & INDEMNITY AGREEMENT approval.

**General Rules**

1. All repairs must be supervised by an instructor or qualified assistant designated by the instructor. The shop may not be used outside of regular scheduled class time or without the permission and presence of an instructor.
2. If a student needs to leave the shop area during regular scheduled class time they are asked to inform the instructor, and sign or clock out.
3. Students are encouraged to bring tools to lab sessions, however VVCC or its employees are not responsible for the theft of your tools.
4. Only students that are currently enrolled in a class are permitted to be in a classroom, parking areas or in the automotive lab areas.
5. All hazardous waste including oil, brake fluids, oil filters, gasoline, solvents and any other substance generally considered by the State of California to be of a hazardous nature must be stored and disposed of properly, if you have questions contact the Automotive Instructional Assistant
6. Students are encouraged to review the (MSDS) Material Safety Data Sheets before contacting any material or chemical in the shop. MSDS are located in the auto shop library.
7. Students are required to immediately notify the instructor of any injury regardless of severity.
8. Students are required to immediately notify the instructor of any hazardous conditions in the lab, classroom or adjacent areas.
9. Students are required to immediately notify the instructor of any hazardous material incident regardless of size.
10. Students enrolled in a class that is currently in session may borrow tools from the tool crib to use in the shop during that lab session. The student must return borrowed tools at the conclusion of that lab session. Tools are not to be removed from the lab area. The student that has borrowed the tool will be financial responsible for the tool if it is not returned to the tool crib at the end of the lab session or is damaged due to a negligence or mischief. Tools will be treated just like borrowed library books from the library, if the tool is not returned to the tool crib, the corresponding replacement cost can be placed on the student's account until paid in full. Financial holds on accounts will result in the student losing the ability to register for classes, holds on graduation and transcripts or other holds as determined by the college. To borrow a tool, the student must surrender their current semester Victor Valley College student Identification. No other form of identification can be used to borrow tools. (I.E) Students cannot borrow tools using a driver's license or state ID, cell phone or car keys. ETC.

**Service Order Procedures and Lab Rules**

1. The instructor must approve all lab projects before work has begun.
2. Students will not be permitted to work in the lab area until they have passed both SP2 automotive safety and pollution training courses and tests with a score of 80% or higher.
3. All vehicles entering the auto shop parking area must have a current work order.
4. Keys will be given to the service advisor and kept in a locked storage area for the duration of the vehicle’s stay in the automotive department. Keys can be checked out during lab sessions from the tool crib with a washer from the tool crib.
5. Only vehicles with a current repair order will be permitted in the shop or rear parking areas. Student parking is provided in designated parking areas only.
6. All vehicles must have steering wheel covers, seat cover, floor mats and fender covers applied before repair work is started.
7. Students will be giving a technician work sheet and must document all work that is performed and all needed additional work on that sheet.
8. An instructor must verify all repairs and the technician worksheet must be signed by the instructor before the repair order can be closed and the vehicles can leave the lab area.
9. After repairs have been completed and repair orders have been closed, vehicles must be removed from the shop and rear parking areas. Vehicle left without permission will be cited and impounded.
10. All lab projects including vehicles left beyond the last day of the term will assumed to be abandoned and will be disposed of properly and at the sole discretion of Victor Valley College.
11. The instructor will have the ability to stop any project, assignment, repair or operation at any time and for any reason if he or she feels that is being conducted in an unsafe manner, a safety rule is being violated, or it poses a hazard to anyone.
12. The internet may be accessed in the computer lab of the automotive department during scheduled class time and only with the permission of the instructor.
13. Respiratory protection is required whenever in the presence of vapors or airborne particulate matter of any kind.
14. Students are not permitted to use any piece of shop equipment without being properly trained on its usage and safety practices.
15. Students are not permitted to drive or road test a vehicle for any reason.
16. Only the instructor or an instructional assistant can road test a vehicle.
17. Students who do not possess a valid California driver’s license may not operate or sit in the driver’s seat of a vehicle.
18. Before starting any vehicle ensure that both feet are in the vehicle, all doors are closed, seat belt is on and you are prepared to operate the vehicle.
19. Wheels must be chocked on all vehicles before repair work is started.
20. A shop exhaust ventilation hose must be connected to the exhaust pipe of any vehicle running in the auto shop.
21. If a student doesn't understand the complete and safe operation of a piece of equipment, service operation or procedure, it is not only their right but the responsibility of the student to stop and ask for proper training from an Instructor or Instructional Assistant before proceeding.
22. Printing within the department is for schematics and repair information only.

**Personal Conduct and Behavior**

1. Profanity and inappropriate conversation is unprofessional and will not be permitted.
2. In the Automotive Industry it is very important that you not only behave in a professional manner, but that you also look professional. Therefore the following mandatory dress policy must be followed:
	1. The Victor Valley College Automotive Department Shirt must be worn to all lab and class sessions.
	2. The designated department shirt must be clean, unwrinkled and worn properly at all times.
	3. You must be bathed, clean, and free of malodor, properly groomed and attired before coming to class. This determination will be made by the instructor and should be consistent with what an employer would expect during working hours.
	4. Your hair must be neat and clean.
	5. Fingernails must be clean and cut short. For safety reasons, long finger nails or acrylic nails are not allowed.
	6. Students not abiding by these policies will be dismissed from class for the day and will not be allowed to make up missed work.
	7. Any student who fails to conduct themselves in a professional manner will be removed from the class and forwarded to the Dean for corrective action.
	8. Students are required to conduct themselves in a safe and professional manner when in the classroom, lab area and when on the VVCC campus.
	9. Victor Valley College is a smoke-free institution. Smoking or the use of any tobacco products **or smokeless devices such as e-cigarettes,** is prohibited at all campus sites.
	10. Eating or drinking is not permitted in lab areas or the rear parking area.
	11. Safety glasses are required when in the shop, whether working on a lab project or not. Smoked colored glasses, sunglasses, and some tinted glasses do not meet the auto shop standard. Please see instructor before purchasing glasses for proper identification. The instructor will have final say on what is or is not safe and appropriate. Some operations may require the additional use of a complete safety shield or tinted lenses for welding or cutting.
	12. Proper close-toed shoes are required in the lab area.
	13. Short pants are not permitted in the lab area.
	14. Loose or baggy clothing is not recommended and may be unsafe. The instructor will have final say on what is or is not safe and appropriate.

**Shop Cleanup and Maintenance**

1. Students are responsible for keeping and maintaining a clean lab area while working in lab.
2. Each class will both sweep and mop the entire shop at the end of each lab session.
3. Students are to ensure that all lab areas are thoroughly cleaned before leaving the lab area.
4. Cleaning up oil spills from the shop floor:
	1. Apply oil absorbent to oil spill and allow sufficient time for oil absorbent to absorb fluid.

Sweep up and either recycle or dispose of absorbent in oil absorbent disposal container.

* 1. Wipe up remaining residue with shop rags and recycle shop rags.
	2. After determining floor is free of oil, mop floor with hot soapy water.
	3. After ensuring mop water is free of contaminants, dispose of mop water in shop sink.
	4. After disposing of used mop water thoroughly clean mop head and bucket and return empty bucket and clean mop to storage rack. Ensure that mop is returned to the hanging position to ensure that it dries.
	5. (Please note that complete shop cleaning instructions are contained the in Shop Maintenance guide, however due to the legality of waste oil disposal a brief explanation was given here.)
1. All vehicles that are staying for additional lab sessions must be removed from the shop and work areas, parked and locked inside the automotive compound at the end of the lab session.
2. All benches must be cleaned and returned to the proper area at the end of the lab session.

**Attendance**

1. All students enrolled in a lecture or lab class are required to **“clock in”** upon their arrival and **“clock out”** upon their departure from class. This time card will serve as the official attendance record for the course. It is the responsibility of the student to ensure that this task is completed during every class session.
2. Any student found tampering with another student's time card, "clocking in" or "clocking out" another student, will be subject to a formal ”Student Disciplinary Action”, which may include termination from the course.

 VOLUNTARY ACTIVITY WAIVER, RELEASE & INDEMNITY AGREEMENT

For and in consideration of permitting (participant)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_to enroll in and participate in the activities of Automotive Lab, at Victor Valley Community College. The undersigned hereby voluntarily releases, discharges, waives and relinquishes any and all actions or causes of action for personal injury, property damage or wrongful death occurring to him/herself arising as a result of engaging or receiving instructions in said activity or any activities incidental thereto wherever or however the same may occur and continue, and the undersigned does for him/herself, his/her heirs, executors, administrators and assigns hereby release, waive, discharge and relinquish any action or causes of action, aforesaid, which may hereafter arise for him/herself and for his/her estate, and agrees that under no circumstances will he/she or his/her heirs, executors, administrators and assigns prosecute, present any claim for personal injury, property damage or wrongful death against Victor Valley Community College or any of its officers, agents or employees for any of said causes of action, whether the same shall arise by the negligence of any of said persons, or otherwise. It is the intention of the Participant by this instrument, to exempt and relieve Victor Valley College from liability for personal injury, property damage or wrongful death caused by negligence. The undersigned, for him/herself, his/her heirs, executors, administrators or assigns, agrees that in the event any claim for personal injury, property damage or wrongful death shall be prosecuted against Victor Valley College, he/she shall indemnify and save harmless the same Victor Valley College from any and claims or causes of action by whomever or wherever made or presented for personal injuries, property damage or wrongful death. The undersigned acknowledges that he/she has read the foregoing Waiver of Liability Notice and the foregoing three (3) paragraphs, has been fully and completely advised of the potential dangers incidental to engaging in the activity and instructing of the activity stated above, and is fully aware of the legal consequences of signing the within instrument.

**Participant Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Participant Printed Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Date:\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Witness Signature:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Witness Printed Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**After signing and dating above, please return the entire packet. Your copy of this document is included in the course syllabus of record of all Victor Valley College Automotive Courses**