SYLLABUS

DATE OF LAST REVIEW : 02/11/2013
CIP CODE: 47.0604
SEMESTER: Departmental Syllabus
COURSE TITLE: Automotive Safety
COURSE NUMBER: AUTT0102
CREDIT HOURS: 1
INSTRUCTOR: Departmental Syllabus
OFFICE LOCATION: Departmental Syllabus
OFFICE HOURS: Departmental Syllabus
TELEPHONE: Departmental Syllabus
EMAIL : KCKCC issued email accounts are the official means for electronically communicating with our students.

PREREQUISITE(S): None

REQUIRED TEXT AND MATERIALS:
Please see bookstore for current textbook(s) and other required material.

COURSE DESCRIPTION:
This class is a prerequisite for the Automotive Technology Program. Its design is to make the student aware of hazards in the automotive environment and learn safe procedures for operating basic equipment in the shop. Emphasis is placed on helping the student to identify hazards and take corrective measures to prevent negative outcomes.

METHOD OF INSTRUCTION:
A variety of instructional methods may be used depending on content area. These include but are not limited to: lecture, multimedia, cooperative/collaborative learning, labs and demonstrations, projects and presentations, speeches, debates, and panels,
COURSE OUTLINE:
All students must comply with personal and environmental safety practices associated with clothing; eye protection; hand tools; power equipment; proper ventilation; and the handling, storage, and disposal of chemicals/materials in accordance with local, state, and federal safety and environmental regulations.

I. SP2 program
II. Hazardous Chemicals
   A. Identification
   B. Right to know
   C. MSDS
III. Pollution
   A. Responsibility
IV. Methods of disposal
   A. Tires
   B. Oil
   C. Antifreeze
   D. Refrigerant
V. Shop safety
   A. Before you can use a tool you should
VI. Protective clothing
   B. Eye protection for different situations
   C. Gloves for different situations
   D. Safe clothes
   E. Footwear
   F. Respirator
   G. Hearing protection
VII. Ventilation
VIII. Fire Safety
   A. Alarms
   B. Types of fires
   C. Fire extinguisher types
   D. Fire extinguisher use
   E. Fire triangle
IX. Lift Safety (Lift Safety Institute Program)
   A. Inspection
   B. Jack safety
   C. Jack stands
   D. Usage for each type of lift
   E. Driving on and off lifts
X. Hand tool safety
   A. Knowing limitations of tools
XI. Pneumatic tool safety
   A. Knowing dangers of air tools
XII. Total Safety Management
   A. Maintaining a safety culture in the workplace
XIII. Safety audits

EXPECTED LEARNER OUTCOMES:
   A. The learner will be able to report the elements of Total Safety Management
   B. The learner will be able to report how to identify hazardous chemicals
   C. The learner will be able to explain right to know laws
   D. The learner will be able to review how our actions affect the environment
   E. The learner will be able to review student responsibilities to be safe in the shop
   F. The learner will be able to describe the proper usage methods of lifting a car
   G. The learner will be able to review the safe usage of tools

COURSE COMPETENCIES:
   The learner will be able to report the elements of Total Safety Management
1. Define Total Safety Management
2. Explain the process of a safety audit
   The learner will be able to report how to identify hazardous chemicals
3. Complete SP2 program
4. Identify hazardous chemicals
   The learner will be able to explain right to know laws
5. Show understanding of right to know and MSDS
   The learner will be able to review how our actions effect the environment
6. Explain our responsibility to prevent pollution
7. Explain Methods of disposal for tires, oil, antifreeze and refrigerant
   The learner will be able to review student responsibilities to be safe in the shop
8. Explain when you are allowed to use a tool in the shop
9. Demonstrate what protective clothing should be worn for each type of working environment
10. Show were in the shop it is safe to be without eye protection, and where it is required
11. Demonstrate how to ventilate the shop and remove exhaust from running cars
12. Show how to locate fire extinguishers in the shop and their type
13. Explain the fire triangle
14. Explain action taken if fire or tornado alarm sounds
   The learner will be able to describe the proper usage methods of lifting a car
15. Demonstrate how to properly lift and lower a car on each type of lift in the lab
16. Complete the Lift Safety Institute Program
17. Explain the use of jack stands
18. Demonstrate how to drive on and off lifts and how to direct someone else on and off a lift
   The learner will be able to review the safe usage of tools
19. Explain the limitations of hand tools and their hazards
20. Explain the limitations of pneumatic equipment and air tool hazards

ASSESSMENT OF LEARNER OUTCOMES:
Assessment methods may include, but are not limited to, the following: Homework, Assignments, Quizzes, Class Participation, Chapter Tests, and Final Exam. The grading scale and the process for calculating the course grades are to be determined by the individual instructors. This information will be included in each instructor’s syllabus.

**SPECIAL NOTES:**
This syllabus is subject to change at the discretion of the instructor. Material included is intended to provide an outline of the course and rules that the instructor will adhere to in evaluating the student’s progress. However, this syllabus is not intended to be a legal contract. Questions regarding the syllabus are welcome any time.

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