

**ADOPTED REGULATION OF THE  
STATE BOARD OF EDUCATION**

**LCB File No. R195-01**

Effective April 1, 2002

EXPLANATION – Matter in *italics* is new; matter in brackets ~~omitted material~~ is material to be omitted.

AUTHORITY: §§1-3, NRS 385.080.

**Section 1.** Chapter 389 of NAC is hereby amended by adding thereto a new section to read as follows:

*A course of study in automotive technology must be designed so that pupils meet the following performance standards by the completion of an advanced program of instruction:*

*1. For the area of safety, demonstrate safe work practices while performing operations in an automotive technology laboratory, as demonstrated by the pupil's ability to:*

*(a) Demonstrate adherence to the general rules of shop safety, including, without limitation, the:*

*(1) Proper use of safety apparel;*

*(2) Proper use and care of hand and power tools;*

*(3) Proper use and care of heavy equipment; and*

*(4) Safe handling, storage and disposal of chemicals and hazardous materials in accordance with local, state and federal statutes and regulations.*

*(b) Demonstrate adherence to the specific rules and procedures of shop safety regarding fire safety, including, without limitation, the:*

*(1) Proper use of fire extinguishers; and*

*(2) Safe handling, storage and disposal of chemicals and hazardous materials in accordance with local, state and federal statutes and regulations.*

*2. For the area of engine repair, understand the requirements for automotive service, as demonstrated by the pupil's ability to perform:*

- (a) General diagnosis of an engine and the removal and reinstallation of an engine;*
- (b) Diagnosis and repair of a cylinder head and valve train;*
- (c) Assembly, diagnosis and repair of an engine block; and*
- (d) Diagnosis and repair of the lubrication and cooling system.*

*3. For the area of automatic transmissions and transaxles, understand the requirements for automotive service, as demonstrated by the pupil's ability to perform:*

- (a) General diagnosis of a transmission and transaxle;*
- (b) Maintenance and adjustment of a transmission and transaxle;*
- (c) Repair of a transmission and transaxle while the transmission and transaxle are in the vehicle; and*
- (d) Repair of a transmission and transaxle while the transmission and transaxle are off the vehicle.*

*4. For the area of manual drive train and axles, understand the requirements for automotive service, as demonstrated by the pupil's ability to perform diagnosis and repair of a:*

- (a) Clutch on rear-wheel drive vehicles;*
- (b) Transmission and transaxle;*
- (c) Drive-shaft and half-shaft, universal and constant velocity joint;*
- (d) Drive axle; and*
- (e) Four-wheel and all-wheel drive component.*

5. *For the area of suspension and steering, understand the requirements of automotive service, as demonstrated by the pupil's ability to perform:*

- (a) Diagnosis and repair of a steering system;*
- (b) Diagnosis and repair of a suspension system;*
- (c) Diagnosis, adjustment and repair for wheel alignment; and*
- (d) Diagnosis and repair of wheels and tires.*

6. *For the area of brakes, understand the requirements of automotive service, as demonstrated by the pupil's ability to perform diagnosis and repair of:*

- (a) Hydraulic systems;*
- (b) Drum brakes;*
- (c) Disc brakes;*
- (d) Power assists units;*
- (e) Anti-lock break systems; and*
- (f) Other items relating to the proper service of brakes, including, without limitation, wheel bearings, parking brakes and electrical systems.*

7. *For the area of electrical and electronic systems, understand the requirements of automotive service, as demonstrated by the pupil's ability to perform:*

- (a) General diagnosis of the electrical system;*
- (b) Diagnosis and repair of a battery;*
- (c) Diagnosis and repair of a starting system;*
- (d) Diagnosis and repair of a charging system;*
- (e) Diagnosis and repair of a lighting system; and*
- (f) Diagnosis and repair of a horn and windshield wiper and washer.*

*8. For the area of heating and air conditioning, understand the requirements for automotive service, as demonstrated by the pupil's ability to perform:*

- (a) Diagnosis and repair of an air conditioning system;*
- (b) Diagnosis and repair of a refrigeration system component;*
- (c) Diagnosis and repair of a heating, ventilation and engine cooling system;*
- (d) Diagnosis and repair of operating systems and related controls; and*
- (e) Recovery, recycling and handling of refrigerants.*

*9. For the area of engine performance, understand the requirements of automotive service, as demonstrated by the pupil's ability to perform:*

- (a) General diagnosis of an engine;*
- (b) Diagnosis and repair of computerized engine controls;*
- (c) Diagnosis and repair of an ignition system;*
- (d) Diagnosis and repair of fuel, air induction and exhaust systems;*
- (e) Diagnosis and repair of emissions control systems; and*
- (f) Other services related to an engine.*

*10. For the area of skills necessary to obtain employment, demonstrate:*

- (a) Skills necessary for solving problems;*
- (b) Skills of critical thinking;*
- (c) The ability to speak, write and listen effectively;*
- (d) The ability to select, apply and maintain the appropriate technology necessary for a career;*
- (e) Skills of leadership and teamwork;*
- (f) An awareness of the ethical behavior appropriate for the workplace;*

- (g) An ability to effectively manage resources in the workplace;*
- (h) Skills necessary for the planning and development of a career; and*
- (i) Skills necessary for retaining a job and continuation of learning throughout a career.*

**Sec. 2.** NAC 389.516 is hereby amended to read as follows:

389.516 A local school board may offer the following courses of study as elective courses in a public high school:

1. History, other than American history.
2. Government, other than American government.
3. Agriculture and natural resource sciences, which may include the courses of study described in NAC 389.520 to 389.538, inclusive.
4. The arts.
5. Business, which may include the courses of study described in NAC 389.542 to 389.554, inclusive.
6. Communications, which may include the courses of study described in NAC 389.556 and 389.558.
7. Occupational education, in cooperation with private employers, as described in NAC 389.562, 389.564 and 389.566.
8. Drivers' education.
9. Foreign language.
10. Occupations, which may include the courses of study described in NAC 389.572 to 389.584, inclusive.
11. Occupations in trade and industry, which may include the courses of study described in NAC 389.586 to 389.618, inclusive **[H]**, *and section 1 of this regulation.*

12. Family and consumer sciences.
13. Industrial arts.
14. Marketing.
15. Skills needed to obtain employment as described in NAC 389.644 to 389.650, inclusive.
16. Social studies.
17. Introduction to occupations which may include the courses of study described in NAC 389.6528 to 389.6547, inclusive.
18. Great Basin Native American languages.

**Sec. 3.** NAC 389.672 is hereby amended to read as follows:

389.672 1. A board of trustees may allow a pupil to earn, towards the units necessary for graduation from high school, two units of the credit required in English, one unit required in mathematics, one unit required in science and one-half unit required in health if he is enrolled in one of the following occupational courses of study and that course of study includes as part of its curriculum the curriculum of the required course:

- (a) Agriculture and natural resource sciences.
- (b) Business.
- (c) Occupational education in cooperation with a private employer.
- (d) Occupations described in NAC 389.572 to 389.584, inclusive.
- (e) Occupations in trade and industry described in NAC 389.586 to 389.618, inclusive **H**,

***and section 1 of this regulation.***

- (f) Family and consumer sciences.
- (g) Industrial arts.
- (h) Marketing.

(i) Skills needed to obtain employment.

2. The superintendent of the school district shall appoint a committee composed of one person certified to teach in the occupational course of study and one person certified to teach in the academic area in which the credit may be earned. The committee must verify to the board of trustees that the curriculum for the occupational course of study includes the curriculum of the required course of study.

3. After verification has been received by the board of trustees, the written curriculum and title of the course of study and a statement of the academic credit to be granted must be submitted to the state board of education for approval. Academic credit may be granted for the occupational course of study or combination of courses only after the state board of education has given its approval.

4. The superintendent of public instruction may give approval for the granting of academic credit to a board of trustees requesting to use a curriculum for a course of study that has been approved by the state board of education for another school district, if:

(a) The procedures set forth in subsection 2 were followed by the requesting district; and

(b) The board of trustees provides assurances that it will not deviate from the curriculum that has been approved by the state board.

5. A pupil who earns academic credit pursuant to this section must be notified that the approval for academic credit is designed to meet the requirements for graduation from high school and may not be accepted for academic credit by a specific postsecondary institution. A copy of the notification given to the pupil must accompany the other materials to be submitted to the state board of education for final approval.

6. A minimum number of credits must be earned in the respective academic areas, as follows:

- (a) At least one credit must be earned in the academic mathematics department;
- (b) At least one credit must be earned in the academic science department; and
- (c) At least two credits must be earned in the academic English department.



**NOTICE OF ADOPTION OF PROPOSED REGULATION  
LCB File No. R195-01**

The State Board of Education adopted regulations assigned LCB File No. R195-01 which pertain to occupational skills standards for automotive technology (chapter 389 of the Nevada Administrative Code) on January 26, 2002.

**Notice date:** 12/18/2001  
**Hearing date:** 1/20/2002

**Date of adoption by agency:** 1/26/2002  
**Filing date:** 4/1/2002

**INFORMATIONAL STATEMENT**

**LEGISLATIVE REVIEW OF ADOPTED REGULATIONS AS REQUIRED  
BY ADMINISTRATIVE PROCEDURES ACT, NRS 233B.066  
NAC 389, Occupational Skills Standards for Automotive Technology (LCB File R 195-01)**

The following statement is submitted for adopted language to Nevada Administrative Code 389:

**1. A description of how public comment was solicited, a summary of public response, and explanation how other interested persons may obtain a copy of the summary.**

The Notice of Workshop to Solicit Comments on Proposed Regulation, NAC 389, Occupational Skills Standards for Automotive Technology, was sent to approximately one-hundred fifty individuals and educational organizations. A workshop was conducted on January 26, 2001, to provide the opportunity for comments by affected parties and the public. There were comments from the public.

The Notice of Intent to Act Upon a Regulation for public hearing and adoption of the revisions to NAC 389, Occupational Skills Standards for Automotive Technology, was sent to approximately one-hundred fifty individuals and educational organizations. One public hearing for Board permanent adoption of regulation language was conducted on January 26, 2002, to provide the opportunity for comments by affected parties and the public. There were comments from the public. The Board adopted the language on January 26, 2002, with revision.

**2. The Number of Persons Who:**

<b>a) Attended Each Hearing:</b>	Workshop: <u>16</u>	Hearing: <u>9</u>
<b>b) Testified at Each Hearing;</b>	Workshop: <u>4</u>	Hearing: <u>1</u>
<b>and,</b>		
<b>c) Submitted Written Statements:</b>	Workshop: <u>2</u>	Hearing: <u>0</u>

Written comments were submitted by Mike Raponi, Consultant, Department of Education, regarding summary of feedback; and Denny Martindale, President, Washoe County Collaborative Board of Directors, in support of the proposed standards.

- 3. A description of how comment was solicited from affected businesses, a summary of the response and an explanation how other interested parties may obtain a copy of the summary.**

Comment was solicited through a workshop notice and public hearing notice of December 18, 2001. At the workshop, the following individuals from the audience spoke in support of the proposed language: Frank Pesce, Curriculum Administrator, Clark County School district; Scott R. Tomlinson, Automotive Instructor, Elko County School District; Bill Barbie, educator, Carson City School District; and, Lawrence M. Thomas, Automotive Director, Clark County School District.. At the public hearing, no individuals from the audience spoke to the proposed language.

A copy of the summary and/or minutes of the public hearing may be obtained by calling LaDonna Byrd, Board Secretary, at the Department of Education (775) 687-9225, or by writing to the Department of Education at 700 East Fifth Street, Carson City, Nevada 89701-5096.

- 4. If the regulation was adopted with or without change to any part of the proposed regulation, a summary of the reasons for adopting.**

The permanent regulation language was adopted by the Nevada State Board of Education at the public hearing held January 26, 2002, with revision to remove subsections 7(f) and 7(h).

- 5. The estimated economic effect of the adopted regulation on the business which it is to regulate and on the public. These must be stated separately, and each case must include:**

There is no economic effect on the business which is regulated. There is no estimated economic effect on the public, either adversely or beneficially, nor immediate or long term.

- 6. The estimated cost to the agency for enforcement of the adopted regulation.**

There is no additional cost to the agency for enforcement of this regulation.

- 7. A description of any regulations of other state or government agencies which the proposed regulation overlaps or duplicates and a statement explaining why the duplication or overlapping is necessary. If the regulation overlaps or duplicates a federal regulation, the name of the regulating federal agency.**

No other state or government agency regulations will be overlapped or duplicated by the above noted regulations. There is no duplication or overlap of federal regulations.

- 8. If the regulation includes provisions which are more stringent than a federal regulation which regulates the same activity, a summary of such provisions.**

There are none.

- 9. If the regulation provides a new fee or increases an existing fee, the total annual amount the agency expects to collect and the manner in which the money will be used.**

This regulation does not provide or involve a new fee.