

AUTO 100 Articulation Competencies

Shop Procedures (1 Credit)

Includes use and maintenance of special tools and equipment, service and repair record keeping, use of technical reference materials, and regulations governing the automotive repair industry. Special emphasis placed on development of a positive attitude toward personal safety, a safe workplace and treatment of hazardous materials.

Upon completion of this course, successful students will score 80% or better on the following competencies to receive WVC college credits.

Student Learning Outcomes:

CATEGORIES			
1. Problem Solving: A. Critical Thinking B. Creative Thinking C. Quantitative Reasoning D. Qualitative Reasoning	2. Communication: A. Oral Expression B. Written Expression C. Artistic Expression	3. Social Interaction: A. Collaboration B. Ethical Conduct C. Professional Conduct D. Cultural Diversity	4. Inquiry: A. Information Literacy B. Research C. Documentation

Course Competencies Checklist:

- Demonstrate a working knowledge of the contents, requirements, regulations, procedures, and expectations of the Automotive Technician program through completion of a written final exam in a period less than 60 minutes with a score of no less than 90%. (1A, 2B)
- Demonstrate the ability to develop and maintain the paper-work required of the student which includes work orders, time records, use of shop manuals and use of labor rate schedules by completing a test work order form in less than 30 minutes with a score of no less than 90%. (4C)
- Demonstrate a working knowledge of personal safety along with an attitude conducive to safe practices in the shop through the completion of a shop safety test in less than 30 minutes with a score of no less than 90% and the demonstration of safe work practices during the time the student is actively working within the Auto Tech lab setting as observed by the lab instructor. (1A, 2A, 2B)
- Demonstrate competency in the correct procedures to be used in regards to all aspects of hazardous material handling as would be encountered in normal day-to-day employment in an auto repair shop. (1A, 4A)

Program Outcomes:

Students who complete the ATS in Automotive Technology will be able to:

- Demonstrate skills and knowledge in:
 - the fundamentals of operation of heating and air conditioning system and their components.
 - the use of the scan tools, lab scopes and various diagnostic equipment in the automotive industry.
 - the use of the various scan tools used to test anti-lock brake systems components and sensors.
 - the use of the various automotive scan tools, lab scopes and diagnostic equipment used in the automotive industry while testing engine management systems.
 - the use of tools to test, remove, disassemble, install and service the air conditioning system components.
- Demonstrate the ability to:
 - locate, use and analyze information and technology resources to perform workplace duties.
 - think critically (analyze, synthesize, evaluate and apply, problem solve, reason quantitatively and qualitatively) in workplace environments.
 - act responsibly as an individual and as a member of a team or group in a workplace environment.
 - Acquire training and education to seek employment or advance in current employment in the automotive industry.
 - Develop a foundation to continue their studies in automotive technology or related fields.

Core Topics:

- Handling of hazardous materials; record keeping and regulations; safety.
- Use and maintenance of special tools and equipment.