

A.S. in Master Collision Repair, Occupational

College Learning Outcomes Matrix: Rate each course from 1 to 5 with 5 being the most important.

A.S. in Master Collision Repair, Occupational	Year of SLO Review	1. Written, Oral and Visual Communication	2. Scientific and Quantitative Reasoning:	3. Critical Thinking 4. Problem Solving:	5. Information Literacy:	DEGREE
ACRT/AUTO 095 Applied Automotive Math	5/2011	3	3	5	3	X
ACRT 101 Basic Sheetmetal Operations for Auto Collision Repair	5/2011	3	3	5	3	X
ACRT 102 Introduction to Auto Collision Repair	5/2011	3	3	5	3	X
ACRT 103 Non-Structural Analysis and Damage Repair	5/2011	3	3	5	3	X
ACRT 104 Structural Analysis and Damage Repair	5/2011	3	3	5	3	X
ACRT 105 Advanced Structural Analysis and Damage Repair	5/2011	3	3	5	3	X
ACRT 106 Metal Fabrication	5/2011	3	3	5	3	X
ACRT 107 MIG Welding for Auto Collision Repair	5/2011	3	3	5	3	X
ACRT 201 Automotive Paint: Waterborne, Clearcoat, and Detailing	5/2011	3	3	5	3	X
ACRT 202 Automotive Paint: Three Stage and Custom Painting	5/2011	3	3	5	3	X
ACRT 225 Automotive Careers and Customer Relations	5/2011	3	3	5	3	X
ACRT 279 Frame Straightening and Repair	5/2011	3	3	5	3	X
AUTO 111 Maintenance – Intermediate	5/2011	3	3	5	3	X
AUTO113 Specialized Electronic Training	5/2011	3	3	5	3	X
ACRT 160A Automotive Painting and Refinishing Repair Workshop	5/2011	3	3	5	3	X
ACRT 160B Automotive Dent and Damage Repair Workshop	5/2011	3	3	5	3	X
ACRT 160C Automotive Structural Repair Workshop	5/2011	3	3	5	3	X
ACRT 160D Automotive Mechanical and Electrical Repair Workshop	5/2011	3	3	5	3	X

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COLLEGE-WIDE SLOS

WHAT ASSIGNMENTS DO YOU GIVE IN THESE CLASSES THAT ASSESS THE FOLLOWING GE SLOS?

What assessment tools do you use? Assess only SLOs that you rated 4 or 5.

A.S. in Master Collision Repair, Occupational	1. Written, Oral and Visual Communication	2. Scientific and Quantitative Reasoning	3. Critical Thinking 4. Problem Solving	5. Information Literacy:	DEGREE
ACRT/AUTO 095 Applied Automotive Math			Lab practical		X
ACRT 101 Basic Sheetmetal Operations for Auto Collision Repair			Lab practical		X
ACRT 102 Introduction to Auto Collision Repair			Lab practical		X
ACRT 103 Non-Structural Analysis and Damage Repair			Lab practical		X
ACRT 104 Structural Analysis and Damage Repair			Lab practical		X
ACRT 105 Advanced Structural Analysis and Damage Repair			Lab practical		X
ACRT 106 Metal Fabrication			Lab practical		X
ACRT 107 MIG Welding for Auto Collision Repair			Lab practical		X
ACRT 201 Automotive Paint: Waterborne, Clearcoat, and Detailing			Lab practical		X
ACRT 202 Automotive Paint: Three Stage and Custom Painting			Lab practical		X
ACRT 225 Automotive Careers and Customer Relations			Lab practical		X
ACRT 279 Frame Straightening and Repair			Lab practical		X
AUTO 111 Maintenance – Intermediate			Lab practical		X
AUTO113 Specialized Electronic Training			Lab practical		X
ACRT 160A Automotive Painting and Refinishing Repair Workshop			Lab practical		X
ACRT 160B Automotive Dent and Damage Repair Workshop			Lab practical		X
ACRT 160C Automotive Structural Repair Workshop			Lab practical		X
ACRT 160D Automotive Mechanical and Electrical Repair Workshop			Lab practical		X

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REQUIREMENTS

ACRT 95* Applied Automotive Math
ACRT 101 Basic Sheetmetal Operations for Automotive Collision Repair
ACRT 102 Introduction to Automotive Collision Repair
ACRT 103 Non-Structural Analysis and Damage Repair 2
ACRT 104 Structural Analysis and Damage Repair
ACRT 105 Advanced Structural Analysis w/plastic repair 2
ACRT 106 Metal Fabrication
ACRT 107 MIG Welding for Automotive Collision Repair
ACRT 201 Automotive Paint Waterborne, Clearcoats and Detailing
ACRT 202 Automotive Paint Three Stage and Custom Painting
ACRT 225 Automotive Careers and Customer Relations
ACRT 279 Frame Straightening and Repair
AUTO 111 Automotive Maintenance Intermediate
AUTO 113 Specialized Electronic Training
ACRT 160A Automotive Painting and Refinishing Repair Workshop
ACRT 160B Automotive Dent and Damage Repair Workshop
ACRT 160C Automotive Structural Repair Workshop
ACRT 160D Automotive Mechanical and Electrical Repair Workshop

Total Units: 41

SLOS

Upon successful completion of the A.S. in Master Collision Repair, the student will be able to:

1. Demonstrate the skills and competencies for a successful career in the auto body repair and painting industry and related areas.
2. Demonstrate the work habits and attitudes necessary to work in a highly competitive and rewarding field.
3. Display the basic skills necessary to become a lifelong learner in order to keep abreast of the latest technological changes in the auto body industry as measured by voluntary participation such as attendance in seminars, ASE Certifications and ICAR training.

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THESE DEGREE OUTCOMES EQUAL WHICH COURSE OUTCOMES FOR THESE COURSES?

A.S. in Master Collision Repair, Occupational	Demonstrate the skills and competencies for a successful career in the auto body repair and painting industry and related areas.	Demonstrate the work habits and attitudes necessary to work in a highly competitive and rewarding field.	Display the basic skills necessary to become a lifelong learner in order to keep abreast of the latest technological changes in the auto body industry as measured by voluntary participation such as attendance in seminars, ASE Certifications and ICAR training.
ACRT/AUTO 095 Applied Automotive Math	1	1	2,3
ACRT 101 Basic Sheetmetal Operations for Auto Collision Repair	a,b,	a,b	c,d,e
ACRT 102 Introduction to Auto Collision Repair	a,b	a,b,c	d,e,f
ACRT 103 Non-Structural Analysis and Damage Repair	a,b	a,b,c	d,e,f
ACRT 104 Structural Analysis and Damage Repair	a,b	a,b,c	d,e,f
ACRT 105 Advanced Structural Analysis and Damage Repair	a,b	a,b,c	d,e,f,g
ACRT 106 Metal Fabrication	a,b	a,b	c,d
ACRT 107 MIG Welding for Auto Collision Repair	a,b	a,b,c	d,e
ACRT 201 Automotive Paint: Waterborne, Clearcoat, and Detailing	1,2	1,2	3,4,5,6,7
ACRT 202 Automotive Paint: Three Stage and Custom Painting	1,2	1,2	3,4,5,6
ACRT 225 Automotive Careers and Customer Relations	1,2,3,4	5,6,7	8,9,10,11,12
ACRT 279 Frame Straightening and Repair	1,2,3,4	5,6,7	8,9,10,11,12,13,14,16,17,18,19 20,21,22,23,24,25,26,27,28,29,30
AUTO 111 Maintenance – Intermediate	1	2	3,4
AUTO113 Specialized Electronic Training	1	2	3,4,5
ACRT 160A Automotive Painting and Refinishing Repair Workshop	a	b	c
ACRT 160B Automotive Dent and Damage Repair Workshop	a	b	c
ACRT 160C Automotive Structural Repair Workshop	a	b	c
ACRT 160D Automotive Mechanical and Electrical	a	b	c,d

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Repair Workshop		
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IN WHICH COURSES ARE THESE DEGREE SLOS ASSESSED? Use “I” for Intro, “P” for Practice and “M” for Mastery.

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ACRT/AUTO 095 Applied Automotive Math	M	M	M
ACRT 101 Basic Sheetmetal Operations for Auto Collision Repair	M	M	M
ACRT 102 Introduction to Auto Collision Repair	M	M	M
ACRT 103 Non-Structural Analysis and Damage Repair	M	M	M
ACRT 104 Structural Analysis and Damage Repair	M	M	M
ACRT 105 Advanced Structural Analysis and Damage Repair	M	M	M
ACRT 106 Metal Fabrication	M	M	M
ACRT 107 MIG Welding for Auto Collision Repair	M	M	M
ACRT 201 Automotive Paint: Waterborne, Clearcoat, and Detailing	M	M	M
ACRT 202 Automotive Paint: Three Stage and Custom Painting	M	M	M
ACRT 225 Automotive Careers and Customer Relations	M	M	M
ACRT 279 Frame Straightening and Repair	M	M	M
AUTO 111 Maintenance – Intermediate	M	M	M
AUTO113 Specialized Electronic Training	M	M	M
ACRT 160A Automotive Painting and Refinishing Repair Workshop	M	M	M
ACRT 160B Automotive Dent and Damage Repair Workshop	M	M	M
ACRT 160C Automotive Structural Repair Workshop	M	M	M
ACRT 160D Automotive Mechanical and Electrical Repair Workshop	M	M	M

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DEGREE SLOS

WHAT ASSIGNMENTS DO YOU GIVE IN THESE CLASSES THAT ASSESS THE FOLLOWING DEGREE SLOS? What assessment tools do you use? Assess only SLOs that you rated 4 or 5.

A.S. in Master Collision Repair, Occupational	Demonstrate the skills and competencies for a successful career in the auto body repair and painting industry and related areas.	Demonstrate the work habits and attitudes necessary to work in a highly competitive and rewarding field.	Display the basic skills necessary to become a lifelong learner in order to keep abreast of the latest technological changes in the auto body industry as measured by voluntary participation such as attendance in seminars, ASE Certifications and ICAR training.
ACRT/AUTO 095 Applied Automotive Math	Unit 1 Safety test	Unit 1 Safety test	Lab practical Final (Emphasis on Automotive Math)
ACRT 101 Basic Sheetmetal Operations for Auto Collision Repair	Unit 1 Safety test	Unit 1 Safety test	Lab practical Final (Emphasis on Basic Sheetmetal Operations)
ACRT 102 Introduction to Auto Collision Repair	Unit 1 Safety test	Unit 1 Safety test	Lab practical Final (Emphasis on Introduction to Auto Collision Repair)
ACRT 103 Non-Structural Analysis and Damage Repair	Unit 1 Safety test	Unit 1 Safety test	Lab practical Final (Emphasis on Non-Structural Analysis and Damage Repair)
ACRT 104 Structural Analysis and Damage Repair	Unit 1 Safety test	Unit 1 Safety test	Lab practical Final (Emphasis on Structural Analysis and Damage Repair)
ACRT 105 Advanced Structural Analysis and Damage Repair	Unit 1 Safety test	Unit 1 Safety test	Lab practical Final (Emphasis on Advanced Structural Analysis and Damage Repair)
ACRT 106 Metal Fabrication	Unit 1 Safety test	Unit 1 Safety test	Lab practical Final (Emphasis on Metal Fabrication)
ACRT 107 MIG Welding for Auto Collision Repair	Unit 1 Safety test	Unit 1 Safety test	Lab practical Final (Emphasis on MIG Welding for Auto Collision Repair)

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A.S. in Master Collision Repair, Occupational	Demonstrate the skills and competencies for a successful career in the auto body repair and painting industry and related areas.	Demonstrate the work habits and attitudes necessary to work in a highly competitive and rewarding field.	Display the basic skills necessary to become a lifelong learner in order to keep abreast of the latest technological changes in the auto body industry as measured by voluntary participation such as attendance in seminars, ASE Certifications and ICAR training.
ACRT 201 Automotive Paint: Waterborne, Clearcoat, and Detailing	Unit 1 Safety test	Unit 1 Safety test	Lab practical Final (Emphasis on Automotive Paint: Waterborne, Clearcoat, and Detailing)
ACRT 202 Automotive Paint: Three Stage and Custom Painting	Unit 1 Safety test	Unit 1 Safety test	Lab practical Final (Emphasis on Automotive Paint: Three Stage and Custom Painting)
ACRT 225 Automotive Careers and Customer Relations	Unit 1 Safety test	Unit 1 Safety test	Lab practical Final (Emphasis on Automotive Careers & Customer Relations)
ACRT 279 Frame Straightening and Repair	Unit 1 Safety test	Unit 1 Safety test	Lab practical Final (Emphasis on Frame Straightening and Repair)
AUTO 111 Maintenance – Intermediate	Unit 1 Safety test	Unit 1 Safety test	Lab practical Final (Emphasis on Automotive Maintenance)
AUTO113 Specialized Electronic Training	Unit 1 Safety test	Unit 1 Safety test	Lab practical Final (Emphasis on Automotive Electronic Training)
ACRT 160A Automotive Painting and Refinishing Repair Workshop	Unit 1 Safety test	Unit 1 Safety test	Lab practical Final (Emphasis on Automotive Painting and Refinishing Repair)
ACRT 160B Automotive Dent and Damage Repair Workshop	Unit 1 Safety test	Unit 1 Safety test	Lab practical Final (Emphasis on Automotive Dent and Damage Repair)
ACRT 160C Automotive Structural Repair Workshop	Unit 1 Safety test	Unit 1 Safety test	Lab practical Final (Emphasis on Automotive Structural Repair)
ACRT 160D Automotive Mechanical and Electrical Repair Workshop	Unit 1 Safety test	Unit 1 Safety test	Lab practical Final (Emphasis on Automotive Mechanical and Electrical Repair)

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ACRT_095	Applied Automotive Math	Revise Course
Expected Outcomes for Student:		
Upon completion of this course, students will be able to:		
<ol style="list-style-type: none">1. Use basic math skills to solve Automotive Repair problems.2. Complete work orders accurately.3. Calculate paint formulas.4. Demonstrate the importance of accuracy of paint formulas and repair orders.		

ACRT_101	Basic Sheetmetal Operations for Auto Collision Repair	New Course
Expected Outcomes for Student:		
Upon completion of this course, students will be able to:		
<ol style="list-style-type: none">a) demonstrate skills using the most common hand tools used in auto body repairb) demonstrate skills and necessary for job-entry employment in the areas of basic sheetmetal operationsc) analyze different components and why they are usedd) understand the different manufacturing technologies in use todaye) be able to recommend repair for both hybrids and pure electric vehicles		

ACRT_102	Introduction to Auto Collision Repair	New Course
Expected Outcomes for Student:		
Upon completion of this course, students will be able to:		
<ol style="list-style-type: none">a) demonstrate skills using the most common hand tools used in auto body repairb) demonstrate skills and necessary for job-entry employment in the areas of basic body repairc) demonstrate basic priming techniquesd) analyze different components and why they are usede) understand the different manufacturing technologies in use todayf) be able to recommend repair for both hybrids and pure electric vehicles		

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ACRT_103	Non-Structural Analysis and Damage Repair	New Course
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Expected Outcomes for Student:

Upon completion of this course, students will be able to:

- a) demonstrate skills using the most common hand tools used in auto body damage repair
- b) demonstrate skills using plastic filler for auto body damage repair
- c) demonstrate skills and necessary for job-entry employment in the areas of non-structural analysis and damage repair
- d) analyze different components and why they are used
- e) understand the different manufacturing technologies in use today
- f) be able to recommend repair for both hybrids and pure electric vehicles

ACRT_104	Structural Analysis and Damage Repair	New Course
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Expected Outcomes for Student:

Upon completion of this course, students will be able to:

- a) demonstrate skills using the most common hand tools used in advanced structural repair
- b) demonstrate skills using advanced machine tools for structural repair
- c) demonstrate skills and necessary for job-entry employment in the areas of structural analysis and damage repair
- d) analyze different components and why they are used
- e) understand the different manufacturing technologies in use today
- f) be able to recommend repair for both hybrids and pure electric vehicles

ACRT_105	Advanced Structural Analysis and Damage Repair	New Course
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Expected Outcomes for Student:

Upon completion of this course, students will be able to:

- a) demonstrate skills using the most common hand tools used in auto body damage repair
- b) demonstrate skills using advanced machine tools for auto body damage repair
- c) demonstrate skills and necessary for job-entry employment in the areas of structural analysis and damage repair
- d) analyze different components and why they are used

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- e) understand the different manufacturing technologies in use today
- f) be able to recommend repair for both hybrids and pure electric vehicles
- g) demonstrate an understanding of basic repair of plastic auto body parts

ACRT_106	Metal Fabrication	New Course
Expected Outcomes for Student:		
<p>Upon completion of this course, students will be able to:</p> <p>demonstrate skills using the most common hand tools used in auto body metal fabrication</p> <p>demonstrate skills using advanced machine tools for metal fabrication.</p> <p>build components/chassis with correct geometric angles and to industry standards.</p> <p>fabricate, form and fit various sheet metal components to industry standards</p>		

ACRT_107	MIG Welding for Auto Collision Repair	New Course
Expected Outcomes for Student:		
<p>Upon completion of this course, students will be able to:</p> <p>a) demonstrate skills using the most common hand tools used in auto body repair</p> <p>b) demonstrate skills and necessary for job-entry employment in the areas of basic MIG welding</p> <p>c) analyze different components and why they are used</p> <p>d) understand the different manufacturing technologies in use today</p> <p>e) be able to recommend repair for both hybrids and pure electric vehicles</p>		

ACRT_201	Automotive Paint Waterborne, Clearcoat and Detailing	New Course
Expected Outcomes for Student:		
<p>Upon completion of this course, first year students will be able to:</p> <ol style="list-style-type: none"> 1. Summarize the basic steps needed to repair a car or truck with damage 2. Demonstrate all body and paint operations 3. Summarize shop safety practices 4. Define corrosion and describe the common factors involved in rust formation 		

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5. Describe anticorrosive materials used to prevent and retard rust formation
6. Explain the conditions and events that lead to corrosion on a vehicle body
7. Choose the correct anticorrosive application equipment for specific applications

ACRT_202	Automotive Paint Three Stage and Custom Painting	New Course
Expected Outcomes for Student:		
<p>Upon completion of this course, first year students will be able to:</p> <ol style="list-style-type: none"> 1. Summarize the basic steps needed to repair a car or truck with damage 2. Summarize shop safety practices 3. Choose the correct anticorrosive application equipment for specific applications 4. Correctly apply anticorrosive materials used to prevent and retard rust formation 5. Explain steps for applying three state paints 6. Demonstrate three stage paint operations on test panels 		

ACRT_225	Automotive Careers and Customer Relations	Revise Course
Expected Outcomes for Student:		
<p>Upon completion of this course, students will be able to:</p> <ol style="list-style-type: none"> 1. Write a resume 2. Organize a work portfolio 3. Complete a 1040 easy tax form 4. Complete a job application 5. Recognize desirable attitudes toward work and the quality to performance 6. Recognize desirable attitudes towards good customer and employee relations. 7. Demonstrate basic skills and knowledge sufficient for job entry performance in bookkeeping, keeping inventory and tax records, and other written duties. 8. Recognize desirable attitudes towards the Bureau of Automotive Repair and other governmental regulatory agencies. 9. Demonstrate basic skills in selling automotive parts and services. 10. Demonstrate basic skills in management of automotive repair facilities, including service stations, independent repair shops, and dealership operations. 11. Evaluate possible careers in the automotive industry and show what qualifications will be required of them. 		

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12. Describe the process of equipping an automotive repair facility.
13. Demonstrate environmental safety in relationship to hazardous materials.
14. Demonstrate personal safety in the workplace.
15. Describe insurance as it applies to the automotive industry.

ACRT_279	Frame Straightening and Repair	Revise Course
Expected Outcomes for Student:		
<p>Upon completion of this course, students will be able to understand all body and paint shop operations, know and use shop safety practices, and know the fundamentals of major collision damage, including:</p> <ol style="list-style-type: none"> 1. Knowing how impact forces are transmitted through both frame and unibody construction vehicles. 2. Describe how to visually determine the extent of impact damage. 3. List the various types of body measuring tools. 4. Analyze damage by measuring body dimensions. 5. Analyze impact damage to mechanical parts of the vehicle. 6. Explain the importance of the datum plane and centerline concepts. 7. Interpret body dimension information and locate key reference points on a vehicle, using body dimension manuals. 8. Discuss the use of tram bars, self-centering gauges, and strut tower gauges. 9. Diagnose various types of body damage, including twist, mash, sag, and sidesway. 10. Locate and measure key points using the proper tools. 11. Answer ASE test questions pertaining to vehicle damage analysis. <ol style="list-style-type: none"> a. The critical skills needed in straightening frames and other body structures. 12. Know the types of straightening equipment and each is properly used. 13. Describe the basic straightening and aligning techniques. 14. Identify safety considerations for using alignment equipment. 15. Plan and execute collision repair procedures. 16. Identify signs of stress/deformation on a unibody vehicle and make the necessary repairs. 17. Determine if a repair or replacement can be done before, during, or after pulling. 18. Answer ASE test questions pertaining to body alignment procedures <ol style="list-style-type: none"> a. The critical skills needed in servicing mechanical, electrical, and electronic components of vehicles. 19. Explain the procedure for removing a power train from a unibody vehicle. 20. Describe how suspensions and steering systems work. 21. List the elements of proper wheel alignment. 22. Recognize the typical problems caused by improper suspension system servicing. 23. Perform the diagnosis and servicing of a power steering system. 24. List the various driveline variations. 		

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25. Name the service procedures for the major parts of a cooling system, including the radiator, fan, fan clutches, and belts and hoses.
26. Describe the service procedures for an air-conditioning system.
27. Diagnose and service an emission control system.
28. Perform testing procedures for repairing electrical and electronic systems.
29. Answer ASE test questions relating to mechanical and electrical systems.
30. Estimate repair costs for all of the above.

ACRT_160A	Automotive Painting and Refinishing Repair Workshop	Revise Course
Expected Outcomes for Student:		
Upon completion of this course, first year students will be able to: a)Use paint and finishes in a safe and efficient manner. b)Safely use volatile materials. c)Estimate time and charges.		

ACRT_160B	Automotive Dent and Damage Workshop	Revise Course
Expected Outcomes for Student:		
Upon completion of this course, students will be able to: a)Shape a damaged fender until the metal surface is smooth and even. b)Repair simple dents using plastic filler technology. c)Estimate time and charges.		

ACRT_160C	Automotive Structural Repair Workshop	Revise Course
Expected Outcomes for Student:		
Upon completion of this course, first year students will be able to: a)Place a vehicle on the alignment rack and make adjustments. b)Make simple welds. c)Estimate time and charges.		

ACRT_160D	Automotive Mechanical and Electrical Repair Workshop	Revise Course
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Expected Outcomes for Student:

Upon completion of this course, first year students will be able to identify areas for:

- a) Wire repair
- b) Air-conditioning service
- c) R&R of mechanical parts
- d) Estimate time and charges.

AUTO_111	Automotive Maintenance Intermediate	Revise Course
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Expected Outcomes for Student:

Upon completion of this course, students will be able to:

1. Demonstrate skills necessary to gain entry-level technician positions in the Automotive Repair Service Industry.
2. Demonstrate student safe work habits.
3. Demonstrate how to use Service Manuals and Computerized Data Information Systems.
4. Demonstrate testing and repair procedures for engine repair, electrical system testing, brake and suspension inspection and fuel and emission diagnosis.

AUTO_113	Specialized Electronic Training	Revise Course
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Expected Outcomes for Student:

Upon completion of this course, students will be able to:

1. Demonstrate safe work habits.
2. Demonstrate an understanding of the structure of matter and basic electricity.
3. Calculate Ohm's Law and explain how it applies to electrical circuits.
4. Demonstrate the use of a DVOM.
5. Demonstrate the skills necessary to read a wiring diagram or schematic.