CATALOG ADDENDUM TO
LINCOLN COLLEGE OF TECHNOLOGY
Grand Prairie Campus
2024-2026
Official School Catalog
Volume XXXVIII

The information contained on this supplement is true and correct to the best of my knowledge and belief.

_____ _____
Mike Couling, Campus President

REVISE the 2nd paragraph of the program objective on page 9:

Air Conditioning, Refrigeration and Heating Technology Service Management

HCRX100AS – ASSOCIATE OF APPLIED SCIENCE DEGREE PROGRAM

The Heating, Ventilation, and Air Conditioning Technology program will introduce students to electrical and mechanical concepts as they apply to HVAC systems. Students will be prepared to enter this field possessing fundamental skills required to service, troubleshoot, and repair commercial and residential indoor HVAC air management systems. Students also learn proper refrigerant recovery and recycling techniques and are encouraged to complete Environmental Protection Agency (EPA) certification testing.

REVISE the 1st and 2nd paragraphs of the program objective on page 11:

Air Conditioning, Refrigeration and Heating Technology

HVACR411D – DIPLOMA PROGRAM

The Heating, Ventilation, and Air Conditioning Technology program will introduce students to electrical and mechanical concepts as they apply to HVAC systems. Students will be prepared to enter this field possessing fundamental skills required to service, troubleshoot, and repair commercial and residential indoor HVAC air management systems. Students also learn proper refrigerant recovery and recycling techniques and are encouraged to complete Environmental Protection Agency (EPA) certification testing.

REVISE the following program information on page 10:

Automotive Service Management Technology

AUXX100AS– ASSOCIATE OF APPLIED SCIENCE DEGREE

DAY/AFTERNOON/EVENING PROGRAMS

total instructional hours 1545
total semester credit hours* 70
weeks to complete (day/aft/eve) . . . . . approximately 83 (including holidays and scheduled breaks)

REVISE the following program number on page 17:

Welding and Fabrication Technology with Pipefitting

WLDX300 – DIPLOMA PROGRAM

ADD the following note to the program on page 10:

Automotive Service Management Technology

AUXX100AS– ASSOCIATE OF APPLIED SCIENCE DEGREE

Lincoln College of Technology, Grand Prairie, Texas has a written agreement with Lincoln College of Technology, Indianapolis, IN to instruct the general education courses of this program by distance education. There are no additional costs incurred as a result of completing these courses by distance education.

REVISE the following policy on page 30:

New Student Orientation

In order for students to become accustomed to their new college environment, an orientation is held to inform them of LCT policies and procedures and to introduce them to key personnel.

Students will be prepared for successful entry into the scheduled starting class by finalizing all necessary paperwork, to include the appropriate financial aid applications or documents and or housing needs. Students will be notified of the scheduled date and time of the session.

EFFECTIVE MARCH 14, 2025

ADD the following programs to the CAREER PROGRAMS on page 7:

Electrical and Electronic Systems Technology Service Management

ESTX100AS – ASSOCIATE OF APPLIED SCIENCE DEGREE PROGRAM

Program Fact Sheet to follow

EFFECTIVE MARCH 17, 2025

ADD the following programs to the CAREER PROGRAMS on page 7:

Collision Repair & Refinishing Service Management

COL211BA – ASSOCIATE OF APPLIED SCIENCE DEGREE PROGRAM

Program Fact Sheet to follow

Collision Repair and Refinishing Service Management

COL211BA–ASSOCIATE OF APPLIED SCIENCE DEGREE PROGRAM

DAY/AFTERNOON/EVENING PROGRAMS

total instructional hours. 1325
total semester credits* 60.5
weeks to complete (day/aft/eve). . approximately 85 (including holidays and scheduled breaks)

***The listing of credits is not meant to imply that credits can be transferred into college or other private career school programs. Transfer credits are at the sole discretion of the receiving school.**

CIP CODE: 47.0603 **SOC CODE: 49-3021**

program objective

This degree program is designed to provide the student with a comprehensive understanding and hands-on application of industry standard collision repair and refinishing techniques. The program also provides information on the latest collision repair tools, equipment, and techniques as well as important safety tips and strategies for students to use in protecting themselves and the environment. It offers an insight to what it takes to become a successful, well-rounded collision repair technician and prepares the student to assume greater responsibilities within the business of collision repair. Graduates of this degree program will be presented with the basic skills and knowledge that an entry-level technician needs to obtain employment in the collision industry.

Upon graduation, the student will be qualified to work in a shop that repairs conventional and unitized bodies using various manufacturers frame, alignment, and paint equipment as well as specialty shops. This program is structured to provide the student with I-CAR Pro-Level 1 Certifications in both the Non-Structural and Refinish areas along with preparation for I-CAR steel and aluminum welding certifications. The general education component will provide the student with the communication, business, and critical thinking skills necessary to pursue other employment opportunities within the industry. Students will be required to complete out-of-class assignments in each course.

number	course	lecture hours	lab/shop hours	total hours	total credits	prerequisites
TECHNICAL COURSES						
CR101B	Introduction to Collision Repair	80	20	100	4.5	
CR102B	Steel Welding Techniques and Processes	35	65	100	4.0	
CR103B	Structural I	80	20	100	4.5	CR101B
CR104B	Vehicle Electrical and Mechanical Systems	80	20	100	4.5	CR101B
CR109B	Non-Structural I	35	65	100	4.0	CR101B
CR107B	Refinishing I	35	65	100	4.0	CR101B
CR209B	Non-Structural II	35	65	100	4.0	CR101B, CR109B
CR210B	Aluminum Welding and Metal Fabrication Techniques	35	65	100	4.0	CR101B, CR102B
CR211B	Advanced Refinishing Techniques with Custom Painting	35	65	100	4.0	CR101B, CR107B
CR116B	Measuring and Damage Assessment	35	65	100	4.0	CR101B, CR102B, CR103B CR104B, CR109B, CR107B
CR216B	Advanced Damage Analysis and Estimating	50	50	100	4.0	CR101B, CR102B, CR103B, CR104B CR109B, CR107B CR116B
GENERAL EDUCATION COURSES						
GEN190V	English Composition I	45	0	45	3.0	
GEN292V	Speech Communication	45	0	45	3.0	
GEN180V	College Algebra	45	0	45	3.0	
GEN130V	Introduction to Critical Thinking	45	0	45	3.0	
GEN150V	Environmental Science	45	0	45	3.0	
	TOTAL PROGRAM	760	565	1325	60.5	

Course numbers are for reference only. The sequence of course offerings may vary depending on scheduling needs.

Mode of Delivery: Residential, Blended Learning or Online are the methods we may use to deliver content in each course. The Residential courses are offered on ground at the campus. Blended courses are offered by delivering a fraction of the course in an online format as well as traditional face to face method. Online courses are delivered 100% online. The Blended delivery and online delivery plan will implement distance education activities into each course in the program of study. The use of simulations, case studies, assessments and multimedia will be used to enhance the students understanding of the learning objectives outlined in the course syllabus

The Technical Core Program classes (except CR216B) may be delivered in either a Residential or Blended Learning format.

CR216B and the General Education Classes may be delivered in a Residential, Blended Learning, or Online format.

Lincoln College of Technology, Grand Prairie, Texas has a written agreement with Lincoln College of Technology, Indianapolis, IN to instruct the general education courses of this program by distance caucation, there are no saditions costs incurred as a result of compering these courses by distance education.

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CR101B – INTRODUCTION TO COLLISION REPAIR

100 Contact Hrs (80 Lecture, 20 Lab/Shop); 4.5 Credits

This course is a detailed introduction to collision repair. Topics to be taught include proper tools and equipment, worker safety, vehicle construction, vehicle systems, diagnosing damage, determining repair or replacement of components, estimating the cost of repairs, corrosion protection, and repair materials and procedures.

Students learn basic surface preparation procedures such as rough sanding, feather edging, fine sanding, priming and finish sanding. Students also learn to mask and tape for spot repairs and complete paint jobs.

Students learn how to analyze and repair damaged metal panels using body hammers, dollies, and paint-less dent repair techniques. Students also learn how to repair panels by patching, welding, using fiberglass, and chemicals. Students will learn how to remove, replace, and properly align cosmetic panels.

Students learn the proper washing, defect removal, and finishing procedures of a complete vehicle detail. Students also learn how to repair and replace vinyl vehicle roofs.

Prerequisite: None

CR102B – STEEL WELDING TECHNIQUES AND PROCESSES

100 Contact Hrs (35 Lecture, 65 Lab/Shop); 4.0 Credits

This course is an introduction to welding as it pertains to the collision repair and refinishing industry. The student will learn the necessary safety precautions as required for cutting and welding. Students will learn how to inspect and test a MIG, TIG, and resistance spot-welds. The student will learn how to weld with both MIG and TIG welders plus use various related equipment. Students will also be able to demonstrate plasma arc cutting as well as oxyacetylene cutting. During this class the student will demonstrate the proper procedures for welding and fabricating components in a live shop.

Prerequisite: None

CR103B – STRUCTURAL I

100 Contact Hrs (80 Lecture, 20 Lab/Shop); 4.5 Credits

This course is designed to teach students how to measure, straighten, and replace steel and aluminum panels including point-to-point measuring and three dimensional measuring equipment and its operation. The student will learn the basic construction of unibody vehicles, conventional frame vehicles, stub frame and space frame vehicles, collision theory, collision forces and the definition of inertia and internal and external forces. The students will also determine the different types of alignment that result from the different types of collisions. Students will learn how to replace and align full and partial vehicle body parts; identify different types of pillars and rocker panels; read and interpret dimension sheets and collision manuals; and identify different frame and frame types.

Prerequisites: CR101B

CR104B – VEHICLE ELECTRICAL AND MECHANICAL SYSTEMS

100 Contact Hrs (80 Lecture, 20 Lab/Shop); 4.5 Credits

This course is designed to cover basic electricity, electrical and electronic systems, active and passive restraint systems, lighting systems, steering, suspension systems, brakes, and air conditioning systems.

Students will learn how to properly use of automotive electrical testing equipment, identify the types and functions of an automotive wiring harness, including the functions of circuit control and protection devices. The students learn how to safely disconnect, remove, reconnect, and reinstall automotive computers without damage. Students will learn about the function of airbags and other active and passive restraint systems, including diagnostic procedures.

Students learn the principles and functions of automotive brake systems, including diagnostic procedures. Students learn how to remove, repair and replace brake assemblies.

Students apply principles and functions of automotive suspension systems, including diagnostic procedures, disassembly, repair and reassembly of suspension systems, and laser wheel alignment procedures.

Students apply the principles and components of automotive air conditioning systems. Students will learn how to properly evacuate, recharge, and service automotive air conditioning system.

Prerequisite: CR101B

CR109B – NON STRUCTURAL I

100 Contact Hrs (35 Lecture, 65 Lab/Shop); 4.0 Credits

This course is designed to cover the skills and tools necessary for non-structural repair procedures. Students learn the types of steel used in vehicle construction and types of damage that can occur to steel.

Students will learn various collision repair tools and repair processes related to non-structural repair. Students will also learn various fillers used in non-structural repairs along sanding equipment and methods. The students will also learn about various tools and repair methods of PDR (Paintless Dent Removal).

Students will also learn about bolt-on components such as doors, front, and rear panels including installation and other considerations such as panel alignment and gaps. Weatherstripping and leak types as well as leak prevention are discussed.

Student will also learn tools and techniques for straightening steel.

Prerequisites: CR101B

CR107B – REFINISHING I

100 Contact Hrs (35 Lecture, 65 Lab/Shop); 4.0 Credits

This course is designed to cover the proper use and techniques of automotive painting equipment. This includes spot jobs and complete paint jobs, vehicle preparation, equipment selection, painting techniques, and planning. During the course, students will learn how to perform proper stroke techniques, pressure settings and the proper temperature at which to paint. Students will learn how to properly prepare a vehicle for painting; identify the different types of paint; properly apply various paints; properly mix paint to achieve optimum color and viscosity; properly use paint mixing equipment to achieve proper color matching.

Prerequisites: CR101B

CR209B – NON-STRUCTURAL II

100 Contact Hrs (35 Lecture, 65 Lab/Shop); 4.0 Credits

This course is designed to provide the student the opportunity to practice the skills of non-structural repair of the vehicle. The students will learn the proper repair, removal, replacement, and adjustment of manual and power window mechanisms. Students will also learn how to straighten metal body parts; repair plastic and composite parts; replace hoods, bumpers, fenders, grilles, and deck lids.

Prerequisite: CR101B, CR109B

CR210B – ALUMINUM WELDING AND METAL FABRICATION TECHNIQUES

100 Contact Hrs (35 Lecture, 65 Lab/Shop); 4.0 Credits

This course is designed to provide the student the opportunity to learn how to weld aluminum, practice the skills of welding for both steel and aluminum, and apply fabrication. Students will learn the differences between welding steel and aluminum apply this knowledge to MIG welding aluminum. The student will demonstrate the required safety precautions that are a part of welding and cutting procedures in the collision industry. During this shop class the student will demonstrate the proper procedures for welding and fabricating components in a live shop. Students will also demonstrate the procedures that were taught in previous classes with regards to MIG and TIG welding and heating and cutting using a combination torch. Students will learn how to apply skills and techniques utilizing vehicles and mockups.

Prerequisites: CR101B, CR102B

CR211B – ADVANCED REFINISHING TECHNIQUES WITH CUSTOM PAINTING

100 Contact Hrs (35 Lecture, 65 Lab/Shop); 4.0 Credits

This course will allow the student to practice proper worker protection techniques and the correct methods of handling hazardous material that collision shops generate. Students will learn theory and the student will use the spray equipment and spray booths that they have previously used in other classes. Students will practice the proper methods of mixing and matching colors in a shop situation as well as demonstrate the correct preparation and maintenance procedures for shop equipment for both waterborne and solvent based paints. Students will learn how to safely apply skills and techniques utilizing vehicles and mockups.

The students will learn how to apply airbrush techniques, with an emphasis on freehand skills. Students will learn how to properly select airbrush components; correctly use and maintain an airbrush; creatively layout and mask areas for airbrushing; use and apply decals; and properly blend automotive art with the vehicle's original finish.

Prerequisites: CR101B, CR107B

CR116B – MEASURING AND DAMAGE ASSESSMENT

100 Contact Hrs (35 Lecture, 65 Lab/Shop); 4.0 Credits

This course is designed to provide a detailed introduction to assessing, measuring and estimating the damage to conventional and unitized vehicles. The student will learn industry standard measuring devices and damage reporting processes. The students will learn how to use industry standard and conventional vehicle frames aligning equipment and devices.

Students will learn how to analyze structural damage to conventional and unitized vehicles; diagnose vehicle damage by using various manufacturers' electronic measuring devices and frame machines. Students will learn how to properly repair conventional vehicle frames by using frame equipment from various manufacturers' which includes, setting up the various measuring systems and checking and recording all of the measurements of the vehicle.

Prerequisites: CR101B, CR102B, CR103B, CR104B, CR109B, CR107B

CR216B – ADVANCED DAMAGE ANALYSIS AND ESTIMATING

100 Contact Hrs (50 Lecture, 50 Lab/Shop); 4.0 Credits

This course is designed to provide a more detailed overview to assessing, measuring and estimating the damage to conventional and unitized vehicles. The student will learn and practice with industry standard measuring devices and damage reporting processes as learned in previous classes. The students will learn how to use industry standard estimating software and how to complete vehicle repair estimates.

Students will learn how to analyze material damage, damage caused by hail, theft and vandalism, exterior panel damage and restraint system damage. The student will also learn how to plan and improve collision job process times along with quality inspection of repairs.

Prerequisites: CR101B, CR102B, CR103B, CR104B, CR109B, CR107B, CR116B

GEN130V – INTRODUCTION TO CRITICAL THINKING

45 Contact Hrs (45 Lecture, 0 Lab); 3.0 Credits

This course presents students with techniques to develop their critical thinking skills. Topics include the importance of language, ambiguity, structure of arguments and creative problem solving. Upon successful completion of this course students should be able to demonstrate an improvement in their ability to apply critical thinking skills to real world situations.

Prerequisite(s): None

GEN180V – COLLEGE ALGEBRA

45 Contact Hrs (45 Lecture, 0 Lab); 3.0 Credits

This course focuses on algebraic concepts essential for success in the workplace and other courses. Using real world examples and applications, students practice fundamental operations with number systems, formulas, algebraic expressions and liner equations. This course also explores problems involving factoring, inequalities, exponents, radicals, linear equations, functions, quadratic equations and graphs. Skills for success in mathematics will be emphasized.

Prerequisite(s): None

GEN190V – ENGLISH COMPOSITION I

45 Contact Hrs (45 Lecture, 0 Lab); 3.0 Credits

Students develop written communication skills, with emphasis placed on the principles of effective communication which includes understanding the writing process, analysis of readings, as can be applied personally and professionally.

Prerequisite(s): None

GEN150V – ENVIRONMENTAL SCIENCE

45 Contact Hrs (45 Lecture, 0 Lab); 3.0 Credits

This course is designed to provide students with a basic scientific overview of how nature works and how things in nature are interconnected. This course explores the study of the earth's natural resources. Topics include the study of how air, water, soil, natural energy, and the minerals are critical and related parts of the earths interconnect systems.

Prerequisite(s): None

GEN292V – SPEECH COMMUNICATION

45 Contact Hrs (45 Lecture, 0 Lab); 3.0 Credits

This course will enhance the student's understanding and appreciation of the uses of oral communication and will teach the skills needed to speak effectively in a variety of situations.

Prerequisite(s): None

Electrical and Electronic Systems Technology Service Management

ESTX100AS—ASSOCIATE OF APPLIED SCIENCE DEGREE PROGRAM

DAY/AFTERNOON/EVENING PROGRAMS

total instructional hours. 1425
total semester credits* 65
weeks to complete (day/aft/eve). . approximately 77 (including holidays and scheduled breaks)

***The listing of credits is not meant to imply that credits can be transferred into college or other private career school programs. Transfer credits are at the sole discretion of the receiving school.**

CIP CODE: 46.0302 **SOC CODE: 47-2111**

program objective

This degree is designed to provide the essential skills and knowledge for the installation, troubleshooting, repair, and maintenance of commercial and residential entertainment, security, monitoring, and telecommunications systems. Graduates of this degree will learn to install cable support structures; laying out and preparing pathways for wiring and cables; installing, securing, testing, and termination of wiring and cables both copper and fiber optic; program digital components and access controls to perform their designated tasks; install and set up media management systems; and perform system commissioning and user training of audio, video, and data systems. This degree program also prepares students on the essential skills and knowledge needed for entry-level residential electrician work. Students will train in installation, service and maintenance areas of the residential electrical industry. They will also complete a 30-hour OSHA approved safety orientation that explains job site hazards, accident prevention, and standard safety procedures.

Upon completion of this program, graduates can meet the minimum requirements needed to be qualified as an entry-level technician in the residential and/or commercial telecommunications, fire alarm, intrusion detection, and signaling, entertainment, audio/video/data, and energy management systems. Students can also qualify as entry-level residential electrician's apprentice. The general education component will provide students with the communication, business, and critical thinking skills necessary to pursue other employment opportunities within the industry.

In addition to the technical training, a critical aspect of a Lincoln education is developing the professional skills that are required by our employers. Students will need to demonstrate skill proficiency through a series of professional development activities and seminars which are integrated into each course. The modules include: Student Success, Financial Literacy, Professional Development and Career Success. Students will be required to complete out of class assignments in each course.

number	course	lecture hours	lab hours	internship hours	total hours	total credits	prerequisites
FOUNDATION COURSES							
EES101	**Introduction to the Trades**	**60**	**60**	**0**	**120**	**5.0**	
	FOUNDATION COURSE TOTAL	**60**	**60**	**0**	**120**	**5.0**	
CORE COURSES							
EES102	**Material Applications**	**60**	**60**	**0**	**120**	**5.0**	
EES103	**Electronic and Electrical Principles**	**60**	**60**	**0**	**120**	**5.0**	
EES104	**Basic Electricity**	**60**	**60**	**0**	**120**	**5.0**	
EES105*	**Electrical Wiring Principles**	**60**	**60**	**0**	**120**	**5.0**	**EES103, EES104**
EES106*	**Electrical Controls and PLC**	**60**	**60**	**0**	**120**	**5.0**	**EES101, EES103, EES104, EES105**
EES108*	**Fiber Optics, Telecommunication Systems & Networking**	**60**	**60**	**0**	**120**	**5.0**	**EES101, EES103, EES104**
EES109*	**Security Systems, Access Control and CCTV**	**60**	**60**	**0**	**120**	**5.0**	**EES101, EES103, EES104, EES105**
EES110*	**Fire Alarm Systems**	**60**	**60**	**0**	**120**	**5.0**	**EES101, EES103, EES104, EES105**
EES111*	**Home Theater, Satellite & System Integration**	**60**	**60**	**0**	**120**	**5.0**	**EES101, EES103, EES104, EES105**
	CORE COURSE TOTAL	**540**	**540**	**0**	**1080**	**45.0**	
GENERAL EDUCATION COURSES							
GEN190V	**English Composition I**	**45**	**0**	**0**	**45**	**3.0**	
GEN292V	**Speech Communication**	**45**	**0**	**0**	**45**	**3.0**	
GEN180V	**College Algebra**	**45**	**0**	**0**	**45**	**3.0**	
GEN130V	**Introduction to Critical Thinking**	**45**	**0**	**0**	**45**	**3.0**	
GEN150V	**Environmental Science**	**45**	**0**	**0**	**45**	**3.0**	
	GENERAL EDUCATION COURSE TOTAL	**225**	**0**	**0**	**225**	**15.0**	
	TOTAL PROGRAM	**825**	**600**	**0**	**1425**	**65.0**	

NOTE: Course numbers and sequences are listed here for reference only. The actual delivery sequence of courses contained in this program may vary depending on individual campus scheduling. Maximum Time Frame: 97.5 semester credits.

*Prerequisite required.

Mode of Delivery: Residential, Blended Learning or Online are the methods we may use to deliver content in each course. The Residential courses are offered on ground at the campus. Blended courses are offered by delivering a fraction of the course in an online format as well as traditional face to face method. Online courses are delivered 100% online. The Blended delivery and online delivery plan will implement distance education activities into each course in the program of study. The use of simulations, case studies, assessments and multimedia may be used to enhance the students understanding of the learning objectives outlined in the course syllabus.

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EES101 – INTRODUCTION TO THE TRADES

120 Contact Hrs (60 Lecture, 60 Lab); 5.0 Credits

The student will be taught how to use basic information for electrical and electronic industries as well as some basic concepts used in performing the electrical and low voltage technician's skill-sets. Material covered includes basic safety, mathematical principles focused on whole numbers, fractions, measurement, decimals, percentages, and the metric system. Additionally, students will be taught how to use hand tools and power tools most commonly used the trades, i.e.: screwdrivers, tape measures, hand saws, drills, etc.

Prerequisite(s): None

EES102 –MATERIAL APPLICATIONS

120 Contact Hrs (60 Lecture, 60 Lab); 5.0 Credits

The student will learn how to use basic blueprint concepts, and the hardware and systems used by an electrical and electronics technician to mount and support boxes, receptacles, and other low voltage components. The student will learn how to use the various types of anchors and supports, their applications, and how to install them safely. Additionally, an overview of electrical raceways from source to destination provided. The student will learn how to use conduit types and bending techniques which completes the student's training in this course.

Prerequisite(s): None

EES103- ELECTRONIC AND ELECTRICAL PRINCIPLES

120 Contact Hrs (60 Lecture, 60 Lab); 5.0 Credits

This course provides the student with a general introduction to the concepts used in Ohm's Law applied to DC series, parallel and combined circuits. This course also introduces concepts used in AC circuits. Topics include electrical theory, electromotive force, resistance, capacitance, inductance, impedance and power equations. Students will study Semiconductors and Integrated circuit theory with hands on lab time to reinforce the learning. Students will study schematic symbols and practice building circuits from schematic diagrams. Students also study appropriate application of proper diagnostic and maintenance procedures using electrical and electronic test equipment to include: meters, oscilloscopes, meg- ohm-meter, watt meters, frequency meters/generators, time domain reflectometers, continuity testers, recording instruments, and RF analyzers.

Prerequisite(s): None

EES104– BASIC ELECTRICITY

120 Contact Hrs (60 Lecture, 60 Lab); 5.0 Credits

This course introduces the student to the electrical trade and provides them with knowledge in the areas of Electrical safety and residential electrical services. It also introduces them to the National Electrical Code and how to find the applicable codes and requirements in the electrical trade. It further provides the student with knowledge in the areas of grounding and bonding of electrical systems; NEC regulations pertaining to grounding and bonding; equipment and devices used for grounding and bonding. Students will also learn about other types of equipment and devices used in the electrical and electronic trades.

Prerequisite(s): None

EES105* – ELECTRICAL WIRING PRINCIPLES

120 Contact Hrs (60 Lecture, 60 Lab); 5.0 Credits

This course will provide the student with thorough understanding various types of conductors used in all types of electrical systems. Students will learn how to terminate conductors with different applications with the appropriate connector and/or terminal. Additionally, students will learn and practice installing conductors, pull and junction boxes using a variety of fasteners needed for a given application. Finally, they will learn the fundamentals of solar voltaic systems including design and configuration and installation.

Prerequisite(s): EES103, EES104

EES106* –ELECTRICAL CONTROLS AND PLC

120 Contact Hrs (60 Lecture, 60 Lab); 5.0 Credits

This course will provide the student with a thorough understanding and functions of the various components used in motor control systems. The student will be introduced to the maintenance and troubleshooting functions of motor controls systems. The student will also learn about the different types of devices and components used within motors controls systems. The course will also focus on basic guidelines and procedural information for receiving and storing, handling and installing lamps and lighting fixtures. The student will learn about (NEMA) National Electrical Manufacturers Association as they prepare to work with magnetic coils and relays, contacts and holding circuit interlock and other structural features of solenoids, timers, starters and contactors. The student will also learn about fuses and circuit breakers. They will understand how they provide protection to electrical conductors and equipment against abnormal conditions. Students will also become familiar with Programmable Logic Controllers and programming them by usage of logic ladders.

Prerequisite(s): EES101, EES103, EES104, EES105

EES108*– FIBER OPTICS, TELECOMMUNICATION SYSTEMS & NETWORKING

120 Contact Hrs (60 Lecture, 60 Lab); 5.0 Credits

This course provides the student knowledge of the basic operation of telephone systems, types of system cables, cable color coding, cable connectors, and installation techniques in addition to identifying the types of data networks, test equipment, and procedures used in testing cables. The student will use the proper procedure and technique to install fiber-optic cabling and support equipment, while describing or demonstrating the types of fiber-optic splicing and/or terminations to achieve an acceptable and "test verified" loss within a specified and acceptable range. In addition, the student will be able to network several computers together back to a main computer.

Prerequisite(s): EES101, EES103, EES104

EES109* – SECURITY SYSTEMS, ACCESS CONTROL AND CCTV

120 Contact Hrs (60 Lecture, 60 Lab); 5.0 Credits

This course is designed to provide the student with the knowledge and skills to install and troubleshoot call signaling systems, entry/access control systems, intrusion detection, security, and surveillance systems (included is CCTV system and key components of a CCTV system) Students will learn the function and how to install and troubleshoot systems in the areas of access control, security systems and intrusion detection, video surveillance. The students will also gain fundamental knowledge of low voltage cabling used in these systems as well as other low voltage systems.

Prerequisite(s): EES101, EES103, EES104, EES105

EES110* FIRE ALARM SYSTEMS

120 Contact Hrs (60 Lecture, 60 Lab); 5.0 Credits

This course provides the student with the knowledge and skills required to successfully, plan, install and problem-solve, both standard Fire Alarm systems and Programmable Fire Alarm systems. Students will be taught the proper methods and equipment to use in residential and industrial fire- detection applications. Proper wiring/cable selection, fire-detection equipment selection, and system layout/planning will be obtained in this course of study. Programming of Fire Alarm devices and systems will be introduced. Theory of typical Fire Alarm software will be presented in this course of study. Hands-on practices of the software applications are included in the course of study.

Prerequisite(s): EES101, EES103, EES104, EES105

EES111* HOME THEATER, SATELLITE AND SYSTEM INTEGRATION

120 Contact Hrs (60 Lecture, 60 Lab); 5.0 Credits

This course is designed to provide the student with the knowledge and skills required to install and troubleshoot rack systems, system integration, and residential systems integration. The students will be taught component function and how to install complete systems racks, residential automation systems. The students will be taught system commissioning and how to train client based systems. In addition, they will learn finish phase testing along with maintenance and repair and will also complete a 30-hour OSHA approved safety orientation that explains job site hazards, accident prevention, and standard safety procedures..

Prerequisite(s): EES101, EES103, EES104, EES105

GEN130V – INTRODUCTION TO CRITICAL THINKING

45 Contact Hrs (45 Lecture, 0 Lab); 3.0 Credits

This course presents students with techniques to develop their critical thinking skills. Topics include the importance of language, ambiguity, structure of arguments and creative problem solving. Upon successful completion of this course students should be able to demonstrate an improvement in their ability to apply critical thinking skills to real world situations.

Prerequisite(s): None

GEN180V – COLLEGE ALGEBRA

45 Contact Hrs (45 Lecture, 0 Lab); 3.0 Credits

This course focuses on algebraic concepts essential for success in the workplace and other courses. Using real world examples and applications, students practice fundamental operations with number systems, formulas, algebraic expressions and liner equations. This course also explores problems involving factoring, inequalities, exponents, radicals, linear equations, functions, quadratic equations and graphs. Skills for success in mathematics will be emphasized.

Prerequisite(s): None

GEN190V – ENGLISH COMPOSITION I

45 Contact Hrs (45 Lecture, 0 Lab); 3.0 Credits

Students develop written communication skills, with emphasis placed on the principles of effective communication which includes understanding the writing process, analysis of readings, as can be applied personally and professionally.

Prerequisite(s): None

GEN150V – ENVIRONMENTAL SCIENCE

45 Contact Hrs (45 Lecture, 0 Lab); 3.0 Credits

This course is designed to provide students with a basic scientific overview of how nature works and how things in nature are interconnected. This course explores the study of the earth's natural resources. Topics include the study of how air, water, soil, natural energy, and the minerals are critical and related parts of the earths interconnect systems.

Prerequisite(s): None

GEN292V – SPEECH COMMUNICATION

45 Contact Hrs (45 Lecture, 0 Lab); 3.0 Credits

This course will enhance the student's understanding and appreciation of the uses of oral communication and will teach the skills needed to speak effectively in a variety of situations.

Prerequisite(s): None

REVISE the following programs:

Collision Repair and Refinishing Service Management – page 7

CRTX100AS – ASSOCIATE OF OCCUPATIONAL STUDIES DEGREE PROGRAM

Collision Repair and Refinishing Technology – page 13

CRTX100 – DIPLOMA PROGRAM

Program Fact Sheets to follow

REMOVE the following membership on page 28:

Memberships

• *Metropolitan Association of Private Schools*

ADD the following consortium agreement language:

Automotive Service Management Technology – Page 10

AUXX100AS– ASSOCIATE OF APPLIED SCIENCE DEGRAUXX100 AS– ASSOCIATE OF APPLIED SCIENCE DEGREE

Lincoln College of Technology, Grand Prairie, Texas has a written agreement with Lincoln College of Technology, Indianapolis, IN to instruct the general education courses of this program by distance education. There are no additional costs incurred as a result of completing these courses by distance education.

Collision Repair and Refinishing Service Management

CRTX100AS—ASSOCIATE OF APPLIED SCIENCE DEGREE PROGRAM

DAY/AFTERNOON/EVENING PROGRAMS

total instructional hours. 1325
total semester credits* 60.5
weeks to complete (day/aft/eve). . approximately 82 (including holidays and scheduled breaks)

***The listing of credits is not meant to imply that credits can be transferred into college or other private career school programs. Transfer credits are at the sole discretion of the receiving school.**

CIP CODE: 47.0603 **SOC CODE: 49-3021**

program objective

This degree program is designed to provide the student with a comprehensive understanding and hands-on application of industry standard collision repair and refinishing techniques. The program also provides information on the latest collision repair tools, equipment, and techniques as well as important safety tips and strategies for students to use in protecting themselves and the environment. It offers an insight to what it takes to become a successful, well-rounded collision repair technician and prepares the student to assume greater responsibilities within the business of collision repair. Graduates of this degree program will be presented with the basic skills and knowledge that an entry-level technician needs to obtain employment in the collision industry. Upon graduation, the student will be qualified to work in a shop that repairs conventional and unitized bodies using various manufacturers frame, alignment, and paint equipment as well as specialty shops. This program is structured to provide the student with I-CAR Pro-Level 1 Certifications in both the Non-Structural and Refinish areas along with preparation for I-CAR steel and aluminum welding certifications. The general education component will provide the student with the communication, business, and critical thinking skills necessary to pursue other employment opportunities within the industry. Students will be required to complete out-of-class assignments in each course.

Students will be required to complete out-of-class assignments in each course.

number	course	lecture hours	lab/shop hours	total hours	total credits	prerequisites
CORE COURSES						
CRT110	Introduction to Collision Repair	80	20	100	4.5	
CRT120	Steel and Aluminum Welding Techniques	35	65	100	4.0	CRT110
CRT130	Structural I	80	20	100	4.5	CRT110, CRT120
CRT140	Vehicle Electrical and Mechanical Systems	80	20	100	4.5	CRT110
CRT170	Refinishing I	35	65	100	4.0	CRT110
CRT190	Non-Structural I	35	65	100	4.0	CRT110
CRT200	Estimating and Damage Assessment	35	65	100	4.0	CRT110, CRT120, CRT130 CRT140, CRT170, CRT190
CRT210	Non-Structural II	35	65	100	4.0	CRT110, CRT190
CRT220	Advanced Refinish Techniques with Custom Painting	35	65	100	4.0	CRT110, CRT170
CRT230	Shop Procedures	35	65	100	4.0	CRT110, CRT120, CRT130 CRT140, CRT170, CRT190
CRT240	Advanced Damage Analysis and Estimating	50	50	100	4.0	CRT110, CRT120, CRT130, CRT140 CRT170, CRT190 , CRT200
	CORE COURSE TOTAL	535	565	1100	45.5	
GENERAL EDUCATION COURSES						
GEN130V	Introduction to Critical Thinking	45	0	45	3.0	
GEN150V	Environmental Science	45	0	45	3.0	
GEN180V	College Algebra	45	0	45	3.0	
GEN190V	English Composition I	45	0	45	3.0	
GEN292V	Speech Communication	45	0	45	3.0	
	GENERAL EDUCATION CLASS TOTAL	225	0	225	15.0	
	TOTAL PROGRAM	760	565	1325	60.5	

Maximum Time Frame (MTF): 90.5 Semester Credits

Note: Course numbers and sequences are listed here for reference only. The actual delivery sequence of courses contained in this program may vary depending on individual campus scheduling.

*Prerequisite required.

Mode of Delivery: Residential, Blended Learning or Online are the methods we may use to deliver content in each course. The Residential courses are offered on ground at the campus. Blended courses are offered by delivering a fraction of the course in an online format as well as traditional face to face method. Online courses are delivered 100% online. The Blended delivery and online delivery plan will implement distance education activities into each course in the program of study. The use of simulations, case studies, assessments and multimedia will be used to enhance the students understanding of the learning objectives outlined in the course syllabus.

The Technical Core Program classes (except CRT240) may be delivered in either a Residential or Blended Learning format.

CRT240 and the General Education Classes may be delivered in a Residential, Blended Learning, or Online format.

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CRT110 – INTRODUCTION TO COLLISION REPAIR

100 Contact Hrs; 4.5 Credits

This course focuses on essential safety practices, including proper handling, storage, and disposal of hazardous materials, as well as the selection and use of personal protective equipment (PPE) and workplace safety resources. Students will learn how to locate and interpret vehicle information to ensure accurate estimates and repairs. Basic vehicle maintenance and washing skills will be introduced alongside the proper use and maintenance of common repair tools. This course covers the use of various abrasives and sanding techniques, materials used in vehicle construction, and the importance of proper material identification for effective repairs. Additionally, heating tools, corrosion protection methods, vehicle structures, collision physics, refinishing processes, and advanced driver assistance systems (ADAS) will be explored. Professional development exercises and seminars are also included. By the end of this course, students will have a well- rounded understanding of entry-level repair techniques, industry-standard tools, and safety protocols necessary for professional vehicle maintenance and repair.

Prerequisite: None

CRT120 – STEEL AND ALUMINUM WELDING TECHNIQUES

100 Contact Hrs; 4.0 Credits

This course provides an overview of welding and fastening techniques used in vehicle repair, emphasizing safety, equipment operation, and quality assessment. Students will learn about appropriate personal protective equipment (PPE) and work area safety, as well as methods for protecting a vehicle during welding. Instruction covers the identification, setup, operation, and maintenance of saws, air hammers, and other cutting tools, along with spot weld removal techniques. Gas metal arc (GMA) welding is explored in detail, including equipment types, setup, operation, troubleshooting, and defect correction for both steel and aluminum. Students will also learn how to evaluate weld quality through visual inspection and destructive testing. Additional topics include aluminum welding techniques, MIG brazing procedures, and squeeze-type resistance spot welding (STRSW), covering equipment, power sources, electrode types, and defect identification. Adhesive applications in vehicle repair are examined, including types of adhesives, application considerations, and failure analysis. The course also covers hem flange removal and replacement, along with rivet bonding techniques. Professional development exercises and seminars will also be conducted. By the end of this course, students will have a foundational understanding of welding, fastening, and adhesive bonding processes, as well as the necessary safety and quality control measures for effective vehicle repairs.

Prerequisite: CRT110

CRT130 – STRUCTURAL I

100 Contact Hrs; 4.5 Credits

This course covers essential concepts in vehicle structural repair, including anchoring methods for unibody and full-frame vehicles and structural alignment strategies. It introduces welding and joining techniques, sectioning considerations, and factory seam part replacement. Measurement principles, including point-to-point and three-dimensional systems, are explained along with data interpretation methods. By the end this course, students will understand key tools, techniques, and procedures to ensure proper vehicle alignment and structural integrity.

Prerequisites: CRT110, CRT120

CRT140 – VEHICLE ELECTRICAL AND MECHANICAL SYSTEMS

100 Contact Hrs; 4.5 Credits

This course provides a foundational understanding of vehicle electrical systems. Students will learn about electricity and electrical current flow, including key concepts such as voltage, current, and resistance, as well as troubleshooting techniques using meters and electrical diagrams. The course also covers wire repair methods and decision-making for repair versus replacement. Additionally, students will explore the operation and maintenance of cooling and air conditioning systems, including identifying system components, troubleshooting failures, and understanding regulations and handling procedures for refrigerants during the repair process. Brake system components are reviewed alongside replacement procedures and servicing considerations. Steering system types and components will be explored with a focus on post-collision inspections, part removal, and replacement techniques. Suspension systems and vehicle alignment concepts are discussed, including the effects on vehicle handling and tire wear, how to read alignment reports, and the proper procedures for removing and installing key suspension system parts based on their variations.

Professional development exercises and seminars are also included. By the end of this course, students will have gained essential knowledge for diagnosing, servicing, and repairing critical vehicle systems, ensuring both safety and performance.

Prerequisite: CRT110

CRT170 – REFINISHING I

100 Contact Hrs; 4.0 Credits

This course introduces the fundamentals of paint chemistry, refinishing terminology, and the wide range of paint products used throughout the refinishing process. Students will learn about different finishes, additives, and coatings, including undercoats, basecoats, and ultraviolet-cured materials. The importance of proper surface preparation for both metal and plastic parts is emphasized, covering materials, tools, and techniques used. The course includes an overview of equipment used in refinishing with instruction on their purpose, setup, and maintenance. Personal protection and safety requirements, including the use and maintenance of respirators, are highlighted throughout the instruction. A dedicated focus on primers explains their role in smoothing imperfections and providing corrosion protection, along with techniques for proper mixing, application, and defect correction. Additionally, students will learn methods for assessing and removing overspray without causing further damage. Professional development exercises and seminars are also included. By the end of this course, students will have a foundational understanding of refinishing materials, surface preparation, application techniques, safety considerations, and foundational steps necessary for achieving a high-quality finish.

Prerequisites: CRT110

CRT190 – NON-STRUCTURAL I

100 Contact Hrs; 4.0 Credits

This course provides an overview of the specialized hand and power tools used in collision repair, with an emphasis on proper tool selection, usage, and maintenance. Students will learn to identify and handle various fasteners and safely remove seized or broken hardware. Safety precautions regarding alternative fuel systems, biohazards, and preventing additional vehicle damage during drop-off and storage are covered. The course includes an in-depth examination of vehicle interior components along with methods for organizing and storing parts and fasteners. Exterior part removal and installation, panel adjustments, and alignment techniques are covered to ensure students can efficiently start a collision repair and properly align and reattach components. Professional development exercises and seminars are also included. By the end of this course, students will be equipped with the skills to systematically disassemble, store, and reassemble vehicle components while maintaining safety and quality standards in collision repair.

Prerequisites: CRT110

CRT200 – ESTIMATING AND DAMAGE ASSESSMENT

100 Contact Hrs; 4.0 Credits

This course covers the fundamentals of estimating and repair planning, including vehicle parts categorization, labor operations, and documentation practices. It explores damage analysis techniques for exterior, interior, structural, mechanical, and electrical components, emphasizing repair vs. replacement considerations.

Students will learn about estimate refinishing and non-structural processes, as well as customer communication and maintaining quality standards. Additionally, the course introduces scheduling, efficiency practices, and the transition of repair plans into production to ensure accurate, efficient, and high-quality vehicle repairs. Professional development exercises and seminars are also included. By the end of this course students will be prepared to create accurate estimates, analyze damage effectively, and manage the repair process from start to finish.

Prerequisites: CRT110, CRT120, CRT130, CRT140, CRT170, CRT190

CRT210 – NON-STRUCTURAL II

100 Contact Hrs; 4.0 Credits

This course introduces the dent repair processes on steel and aluminum. Students will learn to analyze damage and determine appropriate repair methods. Techniques for minor dent removal, including metal shrinking methods, and weld-on dent removal tools, will be covered with a focus on material-specific considerations. The curriculum

also explores body fillers, surface preparation, paintless dent repair (PDR), and sanding techniques while addressing safety precautions. Plastics are covered including material identification, damage evaluation, and reshaping techniques using heat. Students will learn about adhesive repair methods and plastic welding procedures for proper and safe repairs. Professional development exercises and seminars are also included. By the end of this course, students will be equipped with the fundamental knowledge and skills necessary for metal and plastic dent repair, material-specific techniques, and industry-standard safety practices.

Prerequisites: CRT110, CRT190

CRT220 – ADVANCED REFINISH TECHNIQUES WITH CUSTOM PAINTING

100 Contact Hrs; 4.0 Credits

This course covers a comprehensive understanding of spray gun operation, maintenance, and troubleshooting, including the identification and assembly of its components, proper techniques for use, and necessary adjustments. Additionally, the process of surface preparation, such as block sanding and panel refinishing, will be covered to ensure smooth and effective application of coatings. The fundamentals of color theory, with the impact of lighting on color perception, will be explored to achieve accurate color matching. Various refinishing materials, such as primer-sealers, specialty finishes, and topcoats, will be defined and their application techniques explained. Furthermore, both solvent- and water-based basecoats will be examined, along with blending techniques to create seamless transitions. Special considerations for refinishing plastic parts, identifying potential defects, and applying corrective measures will also be discussed to ensure high-quality finishes. Students will learn how to apply airbrush techniques, with an emphasis on freehand skills. Students will learn how to properly select airbrush components; correctly use and maintain an airbrush; creatively layout and mask areas for airbrushing; use and apply decals. Professional development exercises and seminars are also included. By the end of this course, students will have the knowledge and skills to effectively operate and maintain spray guns, prepare surfaces for refinishing, achieve precise color matching, apply various coatings, and utilize airbrush techniques to produce high-quality automotive finishes.

Prerequisites: CRT110, CRT170

CRT230 – SHOP PROCEDURES

100 Contact Hrs; 4.0 Credits

This course covers advanced driver assistance systems (ADAS) calibration, including static and dynamic procedures, diagnostic tools, and troubleshooting considerations. Students will learn about vehicle damage analysis related to ADAS functionality and the use of scan tools for diagnosing system issues. The course also explores alternative energy vehicle systems, including hybrid, electric, hydrogen fuel cells, and compressed gas-powered vehicles, with a focus on safety protocols, personal protective equipment, and high- voltage system service. Additionally, students will further develop their skills learned in CRT100 level classes in a shop environment. Professional development exercises and seminars are also included. By the end of this course, students will be able to accurately diagnose and calibrate ADAS components, analyze vehicle damage affecting these systems, and safely service alternative energy vehicles while applying industry-standard safety protocols and hands-on skills in a shop environment.

Prerequisites: CRT110, CRT120, CRT130, CRT140, CRT170, CRT190

CRT240 – ADVANCED DAMAGE ANALYSIS AND ESTIMATING

100 Contact Hrs; 4.0 Credits

This course is designed to provide a more detailed overview to assessing, measuring and estimating the damage to conventional and unitized vehicles. The student will learn and practice with industry standard measuring devices and damage reporting processes as learned in previous classes. The students will learn how to use industry standard estimating software and how to complete vehicle repair estimates.

Students will learn how to analyze material damage, damage caused by hail, theft and vandalism, exterior panel damage and restraint system damage. The student will also learn how to plan and improve collision job process times along with quality inspection of repairs.

Prerequisites: CRT110, CRT120, CRT130, CRT140, CRT170, CRT190, CRT200

GEN130V – INTRODUCTION TO CRITICAL THINKING

45 Contact Hours (45 Lecture Hours), 3.0 Credits

This course presents students with techniques to develop their critical thinking skills. Topics include the importance of language, ambiguity, structure of arguments and creative problem solving. Upon successful completion of this course students should be able to demonstrate an improvement in their ability to apply critical thinking skills to real world situations.

Prerequisite(s): None

GEN180V – COLLEGE ALGEBRA

45 Contact Hours (45 Lecture Hours), 3.0 Credits

This course focuses on algebraic concepts essential for success in the workplace and other courses. Using real world examples and applications, students practice fundamental operations with number systems, formulas, algebraic expressions and liner equations. This course also explores problems involving factoring, inequalities, exponents, radicals, linear equations, functions, quadratic equations and graphs. Skills for success in mathematics will be emphasized.

Prerequisite(s): None

GEN190V – ENGLISH COMPOSITION I

45 Contact Hours (45 Lecture Hours), 3.0 Credits

Students develop written communication skills, with emphasis placed on the principles of effective communication which includes understanding the writing process, analysis of readings, as can be applied personally and professionally.

Prerequisite(s): None

GEN150V – ENVIRONMENTAL SCIENCE

45 Contact Hours (45 Lecture Hours), 3.0 Credits

This course is designed to provide students with a basic scientific overview of how nature works and how things in nature are interconnected. This course explores the study of the earth's natural resources. Topics include the study of how air, water, soil, natural energy, and the minerals are critical and related parts of the earth's interconnect systems.

Prerequisite(s): None

GEN292V – SPEECH COMMUNICATION

45 Contact Hours (45 Lecture Hours), 3.0 Credits

This course will enhance the student's understanding and appreciation of the uses of oral communication and will teach the skills needed to speak effectively in a variety of situations.

Prerequisite(s): None

Collision Repair and Refinishing Technology

CRTX100—DIPLOMA PROGRAM

DAY/AFTERNOON/EVENING PROGRAMS

total instructional hours. 1000
total semester credits* 41.5
weeks to complete (day/aft/eve). . approximately 54 (including holidays and scheduled breaks)

***The listing of credits is not meant to imply that credits can be transferred into college or other private career school programs. Transfer credits are at the sole discretion of the receiving school.**

CIP CODE: 47.0603 **SOC CODE: 49-3021**

program objective

This program is designed to provide the student with a comprehensive understanding and hands-on application of industry standard collision repair and refinishing techniques. The program also provides information on the latest collision repair tools, equipment, and techniques as well as important safety tips and strategies for students to use in protecting themselves and the environment. It offers an insight to what it takes to become a successful, well-rounded collision repair technician. Graduates of the program will be presented with the basic skills and knowledge that an entry-level technician needs to obtain employment in the collision industry. Upon graduation, the student will be qualified to work in a shop that repairs conventional and unitized bodies using various manufacturers frame, alignment, and paint equipment as well as specialty shops. This program is structured to provide the student with I-CAR Pro-Level 1 Certifications in both the Non-Structural and Refinish areas along with preparation for I-CAR steel and aluminum welding certifications. The general education component will provide the student with the communication, business, and critical thinking skills necessary to pursue other employment opportunities within the industry. Students will be required to complete out-of-class assignments in each course.

Students will be required to complete out-of-class assignments in each course.

number	course	lecture hours	lab/shop hours	total hours	total credits	prerequisites
CORE COURSES						
CRT110	**Introduction to Collision Repair**	**80**	**20**	**100**	**4.5**	
CRT120	**Steel and Aluminum Welding Techniques**	**35**	**65**	**100**	**4.0**	**CRT110**
CRT130	**Structural I**	**80**	**20**	**100**	**4.5**	**CRT110, CRT120**
CRT140	**Vehicle Electrical and Mechanical Systems**	**80**	**20**	**100**	**4.5**	**CRT110**
CRT170	**Refinishing I**	**35**	**65**	**100**	**4.0**	**CRT110**
CRT190	**Non-Structural I**	**35**	**65**	**100**	**4.0**	**CRT110**
CRT200	**Estimating and Damage Assessment**	**35**	**65**	**100**	**4.0**	**CRT110, CRT120, CRT130 CRT140, CRT170, CRT190**
CRT210	**Non-Structural II**	**35**	**65**	**100**	**4.0**	**CRT110, CRT190**
CRT220	**Advanced Refinish Techniques with Custom Painting**	**35**	**65**	**100**	**4.0**	**CRT110, CRT170**
CRT230	**Shop Procedures**	**35**	**65**	**100**	**4.0**	**CRT110, CRT120, CRT130 CRT140, CRT170, CRT190**
	CORE COURSE TOTAL	**485**	**515**	**1000**	**41.5**	
	TOTAL PROGRAM	**485**	**515**	**1000**	**41.5**	

Maximum Time Frame (MTF): 62 Semester Credits

Note: Course numbers and sequences are listed here for reference only. The actual delivery sequence of courses contained in this program may vary depending on individual campus scheduling.

*Prerequisite required.

Mode of Delivery: Residential, Blended Learning or Online are the methods we may use to deliver content in each course. The Residential courses are offered on ground at the campus. Blended courses are offered by delivering a fraction of the course in an online format as well as traditional face to face method. Online courses are delivered 100% online. The Blended delivery and online delivery plan will implement distance education activities into each course in the program of study. The use of simulations, case studies, assessments and multimedia will be used to enhance the students understanding of the learning objectives outlined in the course syllabus.

The Technical Core Program classes may be delivered in either a Residential or Blended Learning format.

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CRT110 – INTRODUCTION TO COLLISION REPAIR

100 Contact Hrs; 4.5 Credits

This course focuses on essential safety practices, including proper handling, storage, and disposal of hazardous materials, as well as the selection and use of personal protective equipment (PPE) and workplace safety resources. Students will learn how to locate and interpret vehicle information to ensure accurate estimates and repairs. Basic vehicle maintenance and washing skills will be introduced alongside the proper use and maintenance of common repair tools. This course covers the use of various abrasives and sanding techniques, materials used in vehicle construction, and the importance of proper material identification for effective repairs. Additionally, heating tools, corrosion protection methods, vehicle structures, collision physics, refinishing processes, and advanced driver assistance systems (ADAS) will be explored. Professional development exercises and seminars are also included. By the end of this course, students will have a well- rounded understanding of entry-level repair techniques, industry-standard tools, and safety protocols necessary for professional vehicle maintenance and repair.

Prerequisite: None

CRT120 – STEEL AND ALUMINUM WELDING TECHNIQUES

100 Contact Hrs; 4.0 Credits

This course provides an overview of welding and fastening techniques used in vehicle repair, emphasizing safety, equipment operation, and quality assessment. Students will learn about appropriate personal protective equipment (PPE) and work area safety, as well as methods for protecting a vehicle during welding. Instruction covers the identification, setup, operation, and maintenance of saws, air hammers, and other cutting tools, along with spot weld removal techniques. Gas metal arc (GMA) welding is explored in detail, including equipment types, setup, operation, troubleshooting, and defect correction for both steel and aluminum. Students will also learn how to evaluate weld quality through visual inspection and destructive testing. Additional topics include aluminum welding techniques, MIG brazing procedures, and squeeze-type resistance spot welding (STRSW), covering equipment, power sources, electrode types, and defect identification. Adhesive applications in vehicle repair are examined, including types of adhesives, application considerations, and failure analysis. The course also covers hem flange removal and replacement, along with rivet bonding techniques. Professional development exercises and seminars will also be conducted. By the end of this course, students will have a foundational understanding of welding, fastening, and adhesive bonding processes, as well as the necessary safety and quality control measures for effective vehicle repairs.

Prerequisite: CRT110

CRT130 – STRUCTURAL I

100 Contact Hrs; 4.5 Credits

This course covers essential concepts in vehicle structural repair, including anchoring methods for unibody and full-frame vehicles and structural alignment strategies. It introduces welding and joining techniques, sectioning considerations, and factory seam part replacement. Measurement principles, including point-to-point and three-dimensional systems, are explained along with data interpretation methods. By the end this course, students will understand key tools, techniques, and procedures to ensure proper vehicle alignment and structural integrity.

Prerequisites: CRT110, CRT120

CRT140 – VEHICLE ELECTRICAL AND MECHANICAL SYSTEMS

100 Contact Hrs; 4.5 Credits

This course provides a foundational understanding of vehicle electrical systems. Students will learn about electricity and electrical current flow, including key concepts such as voltage, current, and resistance, as well as troubleshooting techniques using meters and electrical diagrams. The course also covers wire repair methods and decision-making for repair versus replacement. Additionally, students will explore the operation and maintenance of cooling and air conditioning systems, including identifying system components, troubleshooting failures, and understanding regulations and handling procedures for refrigerants during the repair process. Brake system components are reviewed alongside replacement procedures and servicing considerations. Steering system types and components will be explored with a focus on post-collision inspections, part removal, and replacement techniques. Suspension systems and vehicle alignment concepts are discussed, including the effects on vehicle handling and tire wear, how to read alignment reports, and the proper procedures for removing and installing key suspension system parts based on their variations.

Professional development exercises and seminars are also included. By the end of this course, students will have gained essential knowledge for diagnosing, servicing, and repairing critical vehicle systems, ensuring both safety and performance.

Prerequisite: CRT110

CRT170 – REFINISHING I

100 Contact Hrs; 4.0 Credits

This course introduces the fundamentals of paint chemistry, refinishing terminology, and the wide range of paint products used throughout the refinishing process. Students will learn about different finishes, additives, and coatings, including undercoats, basecoats, and ultraviolet-cured materials. The importance of proper surface preparation for both metal and plastic parts is emphasized, covering materials, tools, and techniques used. The course includes an overview of equipment used in refinishing with instruction on their purpose, setup, and maintenance. Personal protection and safety requirements, including the use and maintenance of respirators, are highlighted throughout the instruction. A dedicated focus on primers explains their role in smoothing imperfections and providing corrosion protection, along with techniques for proper mixing, application, and defect correction. Additionally, students will learn methods for assessing and removing overspray without causing further damage. Professional development exercises and seminars are also included. By the end of this course, students will have a foundational understanding of refinishing materials, surface preparation, application techniques, safety considerations, and foundational steps necessary for achieving a high-quality finish.

Prerequisites: CRT110

CRT190 – NON-STRUCTURAL I

100 Contact Hrs; 4.0 Credits

This course provides an overview of the specialized hand and power tools used in collision repair, with an emphasis on proper tool selection, usage, and maintenance. Students will learn to identify and handle various fasteners and safely remove seized or broken hardware. Safety precautions regarding alternative fuel systems, biohazards, and preventing additional vehicle damage during drop-off and storage are covered. The course includes an in-depth examination of vehicle interior components along with methods for organizing and storing parts and fasteners. Exterior part removal and installation, panel adjustments, and alignment techniques are covered to ensure students can efficiently start a collision repair and properly align and reattach components. Professional development exercises and seminars are also included. By the end of this course, students will be equipped with the skills to systematically disassemble, store, and reassemble vehicle components while maintaining safety and quality standards in collision repair.

Prerequisites: CRT110

CRT200 – ESTIMATING AND DAMAGE ASSESSMENT

100 Contact Hrs; 4.0 Credits

This course covers the fundamentals of estimating and repair planning, including vehicle parts categorization, labor operations, and documentation practices. It explores damage analysis techniques for exterior, interior, structural, mechanical, and electrical components, emphasizing repair vs. replacement considerations.

Students will learn about estimate refinishing and non-structural processes, as well as customer communication and maintaining quality standards. Additionally, the course introduces scheduling, efficiency practices, and the transition of repair plans into production to ensure accurate, efficient, and high-quality vehicle repairs. Professional development exercises and seminars are also included. By the end of this course students will be prepared to create accurate estimates, analyze damage effectively, and manage the repair process from start to finish.

Prerequisites: CRT110, CRT120, CRT130, CRT140, CRT170, CRT190

CRT210 – NON-STRUCTURAL II

100 Contact Hrs; 4.0 Credits

This course introduces the dent repair processes on steel and aluminum. Students will learn to analyze damage and determine appropriate repair methods. Techniques for minor dent removal, including metal shrinking methods, and weld-on dent removal tools, will be covered with a focus on material-specific considerations. The curriculum

also explores body fillers, surface preparation, paintless dent repair (PDR), and sanding techniques while addressing safety precautions. Plastics are covered including material identification, damage evaluation, and reshaping techniques using heat. Students will learn about adhesive repair methods and plastic welding procedures for proper and safe repairs. Professional development exercises and seminars are also included. By the end of this course, students will be equipped with the fundamental knowledge and skills necessary for metal and plastic dent repair, material-specific techniques, and industry-standard safety practices.

Prerequisites: CRT110, CRT190

CRT220 – ADVANCED REFINISH TECHNIQUES WITH CUSTOM PAINTING

100 Contact Hrs; 4.0 Credits

This course covers a comprehensive understanding of spray gun operation, maintenance, and troubleshooting, including the identification and assembly of its components, proper techniques for use, and necessary adjustments. Additionally, the process of surface preparation, such as block sanding and panel refinishing, will be covered to ensure smooth and effective application of coatings. The fundamentals of color theory, with the impact of lighting on color perception, will be explored to achieve accurate color matching. Various refinishing materials, such as primer-sealers, specialty finishes, and topcoats, will be defined and their application techniques explained. Furthermore, both solvent- and water-based basecoats will be examined, along with blending techniques to create seamless transitions. Special considerations for refinishing plastic parts, identifying potential defects, and applying corrective measures will also be discussed to ensure high-quality finishes. Students will learn how to apply airbrush techniques, with an emphasis on freehand skills. Students will learn how to properly select airbrush components; correctly use and maintain an airbrush; creatively layout and mask areas for airbrushing; use and apply decals. Professional development exercises and seminars are also included. By the end of this course, students will have the knowledge and skills to effectively operate and maintain spray guns, prepare surfaces for refinishing, achieve precise color matching, apply various coatings, and utilize airbrush techniques to produce high-quality automotive finishes.

Prerequisites: CRT110, CRT170

CRT230 – SHOP PROCEDURES

100 Contact Hrs; 4.0 Credits

This course covers advanced driver assistance systems (ADAS) calibration, including static and dynamic procedures, diagnostic tools, and troubleshooting considerations. Students will learn about vehicle damage analysis related to ADAS functionality and the use of scan tools for diagnosing system issues. The course also explores alternative energy vehicle systems, including hybrid, electric, hydrogen fuel cells, and compressed gas-powered vehicles, with a focus on safety protocols, personal protective equipment, and high- voltage system service. Additionally, students will further develop their skills learned in CRT100 level classes in a shop environment. Professional development exercises and seminars are also included. By the end of this course, students will be able to accurately diagnose and calibrate ADAS components, analyze vehicle damage affecting these systems, and safely service alternative energy vehicles while applying industry-standard safety protocols and hands-on skills in a shop environment.

Prerequisites: CRT110, CRT120, CRT130, CRT140, CRT170, CRT190

ADD to the following policy on page 35:

Scholarships

High School Scholarship Program

General Information

The High School Annual Scholarship Award Program is for High School Seniors graduating in 2025 who start school by December 31, 2025. The student must be in good standing with their high school at graduation and must earn a high school diploma in order to take advantage of any award money. A preliminary scholarship competition is conducted in the form of aptitude testing. On the basis of test results, semi-finalists are selected and invited to submit a portfolio. The top ten semi-finalists with portfolios will be recognized. Semi-Finalists will return for an interview conducted by the scholarship committee comprised of volunteers representing business, industry, education and/or government not affiliated with LCT. This committee will evaluate each candidate on the basis of preliminary test results, professionalism, enthusiasm, personal conduct, and oral expression.

LCT will award applicants a $500 scholarship to selected 2025 high school seniors who score between a 39-46 on the scholarship aptitude test. A $1,000 scholarship will be awarded to selected 2025 high school seniors who score between a 47-55 on the scholarship aptitude test. Students can only receive one scholarship through this program. Students will not be able to combine scholarships awarded in the testing portion, semi-finalist, and finalist portion. The testing deadline for the $500-$1000 scholarship is December 31, 2025.

The ten finalists will be interviewed by the scholarship committee and each finalist will be awarded only one of the following based on his/her performance: a $10,000 scholarship (1 available); $7,500 scholarship (4 available); $3,500 scholarship (2 available); $2,500 scholarship (3 available). Scholarships will be awarded by June 30, 2025.

Portfolio Guidelines

The student must prepare a one-page essay of no less than 300 words on why they wish to attend Lincoln College of Technology. In addition, they will need to submit three (3) letters of recommendation which highlight their character, work ethic, and passion for the industry. These letters may be from a teacher, counselor, employer, community leader, or professional friend. Family members may not be used as a reference. The portfolios will be judged on professionalism, presentation, and content by an independent individual. Portfolio submission deadline is May 23, 2025. No late portfolios will be considered.

Finalist Award Breakdown

Total Awards	Number Awarded
$10,000	1
$7,500	4
$3,500	2
$2,500	3

FINALIST SCHOLARSHIP AWARD AMOUNTS

1- $10,000 SCHOLARSHIP
4- $7,500 SCHOLARSHIPS
2- $3,500 SCHOLARSHIPS
3- $2,500 SCHOLARSHIPS
$500 – IF APTITUDE SCORE IS 39-46
$1,000 – IF APTITUDE SCORE IS 47-55

Students can only receive one scholarship through this program, students will not be able to combine scholarships awarded in the testing portion, semi-finalist, and finalist portion.

Students first score will be score of record of the aptitude test unless an incomplete test has been logged in the system. The second chance would only be warranted for a system outage or internet failure.

Students can receive any combined Lincoln Scholarships / Grant not to exceed $3,000.

- If a student receives any single Lincoln scholarship / Grant exceeding $3,000, that will be the only scholarship awarded, no other Lincoln Scholarship / Grant can be combined.
- Gap Grants, Pride Grants and Academic Leadership Scholarships are excluded from the $3,000 cap.

All scholarships must be applied for within 30 days of the start (with the exception of the Leadership Scholarships).

EFFECTIVE FOR START DATES BETWEEN OCTOBER 1, 2024 THROUGH OCTOBER 1, 2025

ADD to the following scholarship on page 35:

Academic & Leadership Award Scholarship

Background:
Lincoln Technical Institute (Group of Schools) is honored to offer the Academic & Leadership Award to qualified applicants. This $2,500 award will go to thirty (30) current students annually throughout Lincoln Educational Services group of schools who exhibit leadership qualities, both in their personal lives and in their school career.

Eligibility Requirements:
In order to apply for the Award, an eligible student must:

- Currently attend a Lincoln Tech (Group of Schools) program for a minimum of 30 days
- Complete the application
- Complete the essay
- Minimum GPA of 3.0
- Title IV students must complete the Free Application for Federal Student Aid (FAFSA)

The student who earns this award must maintain satisfactory academic progress. Only students that meet the qualifications listed above can apply for this award.

Award:
Thirty (30) awards will be available annually (15 awards in February & 15 awards in August), to eligible students who apply, each in the amount of $2,500. The award will be prorated over the entire length of his/her program and is specifically intended to cover expenses related to tuition costs. The Lincoln Award Committee will review all applications and select a finalist.

	Submission OPENS	Submissions CLOSES	Winner Announced
1.	October 1, 2024	November 15, 2024	February 1, 2025
2.	April 5, 2025	May 20, 2025	August 1, 2025

Contact Requirements:
The student portal provides a link, only during submission dates, that will allow students to complete the application/essay portion online. If a student chose to include recommendations, they must be completed and ready to upload at the time of submission. **The system will only allow one submission per student number**.

Note: Due to Veteran Affairs (VA) regulations, if the selected scholarship winner is also receiving VA educational benefits, we are obligated to inform the VA of this award. In some cases, fully funded VA beneficiaries may not receive any direct benefit from this award.

EFFECTIVE FOR ENROLLMENTS BETWEEN JANUARY 1, 2025 THROUGH DECEMBER 31, 2025

ADD to the following policy on page 35:

Scholarships

American Hero Scholarship

Purpose:
Lincoln Scholarship Programs are designed to provide financial assistance to students who meet the criteria established below and want to enroll in one of the Lincoln Group of Schools* for enrollments between January 1, 2025 through December 31, 2025. By offering the *American Hero Scholarship* to future students who are interested in vocational career training, Lincoln continues to show its commitment to helping students reach their goals as it has done since opening its first school in 1946.

Eligibility Requirements**:
In order to apply for a Lincoln Scholarship, an eligible student must:

- Complete the application process to enroll;
- Complete the Free Application for Federal Student Aid (FAFSA);
- Enroll in the program of your choice by December 31, 2025; and
- Submit your Lincoln Scholarship application to the financial aid staff.

American Hero Scholarships applicants must submit proof of military service.

Those students awarded a scholarship must maintain satisfactory academic progress and also must attend the Lincoln Financial Literacy presentation within six weeks of enrollment. Only students that meet the qualifications listed above, and the admissions requirements in order to be considered an enrolled student, and who have demonstrated a financial need, can be awarded this scholarship.

Scholarship Award:
Each eligible student may apply for one scholarship with an award of $1,000**. The scholarship will be prorated over the entire length of his/her program. A Lincoln designee will make the final decision regarding the award.
Applications can be submitted any time prior to enrollment periods established by the school of your choice. Winners of the scholarship will be notified in writing by school administration. The notification will include the amount being awarded and start date for the program.

Additional Scholarship Information:
In order to be eligible for the scholarship, a student must enroll between January 1, 2025 and December 31, 2025. Applications must be submitted on or before December 31, 2025. The scholarship will not be awarded to any student who defers their enrollment past the requisite time period. The amount and number of scholarships offered by each campus can vary based on the number of applications. This award is a scholarship and does not require any form of repayment to any of the Lincoln Group of Schools*.
These Scholarship programs can be suspended at any time. There would be no adverse impact on those students who were awarded a scholarship in the event that the Scholarship program was suspended.

Students can receive any combined Lincoln Scholarships / Grant not to exceed $3,000.

- If a student receives any single Lincoln scholarship / Grant exceeding $3,000, that will be the only scholarship awarded, no other Lincoln Scholarship / Grant can be combined.
- Gap Grants, Relocation Grants and Academic Leadership Scholarships are excluded from the $3,000 cap.

*The Lincoln Group of Schools includes those schools under the names of Lincoln Technical Institute, Lincoln College of Technology and Nashville-Auto Diesel College.
**Recipients of the American Hero Scholarship may have their award applied to books and fees, if tuition is fully covered by other sources. All scholarships must be applied for within 15 days of the start (with the exception of the Leadership Scholarships).

EFFECTIVE FOR ENROLLMENTS BETWEEN JANUARY 1, 2025 THROUGH DECEMBER 31, 2025

ADD to the following policy on page 35:

Scholarships

Single Parent Scholarship

Purpose:
Lincoln Scholarship Programs are designed to provide financial assistance to students who meet the criteria established below and want to enroll in one of the Lincoln Group of Schools* for enrollments between January 1, 2025 through December 31, 2025. By offering the *Single Parent* Scholarships to future students who are interested in vocational career training, Lincoln continues to show its commitment to helping students reach their goals as it has done since opening its first school in 1946.

Eligibility Requirements**:
In order to apply for a Lincoln Scholarship, an eligible student must:

- Complete the application process to enroll;
- Complete the Free Application for Federal Student Aid (FAFSA);
- Enroll in the program of your choice by December 31, 2025; and
- Submit your Lincoln Scholarship application to the financial aid staff.

Those students awarded a scholarship must maintain satisfactory academic progress and also must attend the Lincoln Financial Literacy presentation within six weeks of enrollment. Only students that meet the qualifications listed above, and the admissions requirements in order to be considered an enrolled student, and who have demonstrated a financial need, can be awarded this scholarship.

Scholarship Award:
Each eligible student may apply for one scholarship with an award of $1,000**. The scholarship will be prorated over the entire length of his/her program. A Lincoln designee will make the final decision regarding the award.

Applications can be submitted any time prior to enrollment periods established by the school of your choice. Winners of the scholarship will be notified in writing by school administration. The notification will include the amount being awarded and start date for the program.

Additional Scholarship Information:
In order to be eligible for the scholarship, a student must enroll between January 1, 2025 and December 31, 2025. Applications must be submitted on or before December 31, 2025. The scholarship will not be awarded to any student who defers their enrollment past the requisite time period. The amount and number of scholarships offered by each campus can vary based on the number of applications. This award is a scholarship and does not require any form of repayment to any of the Lincoln Group of Schools*.

These Scholarship programs can be suspended at any time. There would be no adverse impact on those students who were awarded a scholarship in the event that the Scholarship program was suspended.

Students can receive any combined Lincoln Scholarships / Grant not to exceed $3,000.

- If a student receives any single Lincoln scholarship / Grant exceeding $3,000, that will be the only scholarship awarded, no other Lincoln Scholarship / Grant can be combined.
- Gap Grants, Pride Grants and Academic Leadership Scholarships are excluded from the $3,000 cap.

*The Lincoln Group of Schools includes those schools under the names of Lincoln Technical Institute, Lincoln College of Technology and Nashville Auto-Diesel College.
** FAFSA application is required to determine eligibility. All scholarships must be applied for within 15 days of the start (with the exception of the Leadership Scholarships).

EFFECTIVE FOR ENROLLMENTS BETWEEN JANUARY 1, 2025 THROUGH DECEMBER 31, 2025

ADD to the following policy on page 35:

Scholarships

First Responder Scholarship Program

Purpose:

The Lincoln First Responder Scholarship is designed to provide financial assistance to Emergency Responders and immediate family members who meet the criteria established below and want to enroll in a qualifying program of study at one of the Lincoln Group of Schools* for enrollments between January 1, 2025 through December 31, 2025. By offering the Lincoln First Responder Scholarship to future students who are interested in vocational career training, Lincoln continues to show its commitment to helping students reach their goals as it has done since opening its first school in 1946.

Eligibility Requirements:

In order to apply for the Lincoln First Responder Scholarship, an eligible student must:

- Complete the application process to enroll;
- Provide proof of service documentation;
- Complete the Free Application for Federal Student Aid (FAFSA);
- Enroll in the program of your choice by December 31, 2025; and
- Submit your Lincoln First Responder Scholarship application to the financial aid staff.

Scholarship recipients must attend the Lincoln Financial Literacy presentation within six weeks of enrollment. Only students that meet the qualifications listed above, and the admissions requirements in order to be considered an enrolled student, and who have demonstrated a financial need, can be awarded this scholarship.

Scholarship Award:

Each eligible student may apply for one First Responder scholarship with an award of $1,000. The scholarship will be prorated over the entire length of his/her program. A Lincoln designee will make the final decision regarding the award. The total scholarship amount will be calculated and awarded in installments at the completion of each term/semester subject to the student maintaining good academic standings.

Any student can apply for the scholarship. Applications can be submitted any time prior to enrollment periods established by the school of your choice. Winners of the scholarship will be notified in writing by school administration. The notification will include the amount being awarded and start date for the program.

Additional Scholarship Information:

In order to be eligible for the scholarship, a student must enroll between January 1, 2025 and December 31, 2025. Applications must be submitted on or before December 31, 2025. The scholarship will not be awarded to any student who defers their enrollment past the requisite time period. The amount and number of scholarships offered by each campus can vary based on the number of applications. This award is a scholarship and does not require any form of repayment to any of the Lincoln Group of Schools*.

This Scholarship program can be suspended at any time. There would be no adverse impact on those students who were awarded the scholarship in the event that the Scholarship program was suspended.

Students can receive any combined Lincoln Scholarships / Grant not to exceed $3,000.

- If a student receives any single Lincoln scholarship / Grant exceeding $3,000, that will be the only scholarship awarded, no other Lincoln Scholarship / Grant can be combined.
- Gap Grants, Pride Grants and Academic Leadership Scholarships are excluded from the $3,000 cap.

*The Lincoln Group of Schools includes those schools under the names of Lincoln Technical Institute, Lincoln College of Technology, and Nashville Auto-Diesel College.
All scholarships must be applied for within 15 days of the start (with the exception of the Leadership Scholarships).

Auto/Diesel AM, Afternoon & Evening	
Start	**Grad**
1/6/2025	2/9/2026
2/10/2025	3/16/2026
3/17/2025	4/16/2026
4/21/2025	5/21/2026
5/27/2025	6/25/2026
7/1/2025	7/30/2026
8/5/2025	9/14/2026
9/9/2025	10/15/2026
10/14/2025	11/19/2026
11/18/2025	12/23/2026
1/6/2026	2/8/2027

ASMT Associates AM & Afternoon	
Start	**Grad**
1/6/2025	7/30/2026
2/10/2025	9/14/2026
3/17/2025	10/15/2026
4/21/2025	11/19/2026
5/27/2025	12/23/2026
7/1/2025	2/8/2027
8/5/2025	3/15/2027
9/9/2025	4/15/2027
10/14/2025	5/20/2027
11/18/2025	6/28/2027
1/6/2026	7/29/2027

EEST AM, Afternoon & Evening	
Start	**Grad**
1/6/2025	12/18/2025
2/10/2025	2/9/2026
3/17/2025	3/16/2026
4/21/2025	4/16/2026
5/27/2025	5/21/2026
7/1/2025	6/25/2026
8/5/2025	7/30/2026
9/9/2025	9/14/2026
10/14/2025	10/15/2026
11/18/2025	11/19/2026
1/6/2026	12/23/2026

HVAC 10.0 AM, Afternoon & Evening	
Start	**Grad**
1/6/2025	12/18/2025
2/10/2025	2/9/2026
3/17/2025	3/16/2026
4/21/2025	4/16/2026
5/27/2025	5/21/2026
7/1/2025	6/25/2026
8/5/2025	7/30/2026
9/9/2025	9/14/2026
10/14/2025	10/15/2026
11/18/2025	11/19/2026
1/6/2026	12/23/2026

HVAC 10.0 Associates AM, Afternoon & Evening	
Start	**Grad**
1/6/2025	6/26/2025
2/10/2025	7/30/2025
3/17/2025	9/4/2025
4/21/2025	10/8/2025
5/27/2025	11/12/2025
7/1/2025	12/18/2025
8/5/2025	2/5/2026
9/9/2025	3/12/2026
10/14/2025	4/15/2026
11/18/2025	5/20/2026
1/6/2026	6/25/2026

Collision 10.0 Associates AM, Afternoon & Evening	
Start	**Grad**
1/6/2025	7/30/2026
2/10/2025	9/14/2026
3/17/2025	10/15/2026
4/21/2025	11/19/2026
5/27/2025	12/23/2026
7/1/2025	2/8/2027
8/5/2025	3/15/2027
9/9/2025	4/15/2027
10/14/2025	5/20/2027
11/18/2025	6/28/2027
1/6/2026	7/29/2027

Collision AM & Afternoon & Evening	
Start	**Grad**
1/6/2025	12/18/2025
2/10/2025	2/9/2026
3/17/2025	3/16/2026
4/21/2025	4/16/2026
5/27/2025	5/21/2026
7/1/2025	6/25/2026
8/5/2025	7/30/2026
9/9/2025	9/14/2026
10/14/2025	10/15/2026
11/18/2025	11/19/2026
1/6/2026	12/23/2026

CNC Machining & Manufacturing Tech AM & Afternoon & Evening	
Start	**Grad**
1/13/25	10/9/25
2/10/25	11/6/25
3/10/25	12/8/25
4/3/25	1/20/2026
4/30/25	2/17/26
5/28/25	3/16/26
6/24/25	4/9/26
7/22/2025	5/7/26
8/19/2025	6/4/2026
9/16/2025	7/2/2026
10/14/25	7/29/2026
11/10/25	9/1/26
12/9/25	9/28/26

EEST 10.0 Associates AM, Afternoon & Evening	
Start	**Grad**
1/6/2025	6/26/2025
2/10/2025	7/30/2025
3/17/2025	9/4/2025
4/21/2025	10/8/2025
5/27/2025	11/12/2025
7/1/2025	12/18/2025
8/5/2025	2/5/2026
9/9/2025	3/12/2026
10/14/2025	4/15/2026
11/18/2025	5/20/2026
1/6/2026	6/25/2026

Welding Pipefitting AM, Afternoon & Evening	
Start	**Grad**
1/6/2025	12/18/2025
2/10/2025	2/9/2026
3/17/2025	3/16/2026
4/21/2025	4/16/2026
5/27/2025	5/21/2026
7/1/2025	6/25/2026
8/5/2025	7/30/2026
9/9/2025	9/14/2026
10/14/2025	10/15/2026
11/18/2025	11/19/2026
1/6/2026	12/23/2026

Welding and Metal Fabrication Technology Weekend	
Start	**Grad**
2/9/2025	9/6/2025
3/16/2025	10/11/2025
4/20/2025	11/15/2025
5/25/2025	12/21/2025
6/29/2025	2/1/2026
8/3/2025	3/8/2026
9/7/2025	4/12/2026

Grand Prairie Campus
Official School Catalog
2024-2026
Volume XXXVIII

School Administration and Faculty Catalog Addendum

Effective June 21, 2025

School Administration

Mike Couling
Campus President
BA, Texas A & I University
14 years' experience

Jennie Hargrove
Director of Administration
BS, Liberty International University
26 years' experience

Robert Gutierrez
Regional Director of High School Admissions
BA, UT Pan American
15 years' experience

Michael Guillory
Regional Director of High School Admissions
BS, University of Phoenix
16 years' experience

Sean Meeks
Director of Admissions
BA, Univ. of Texas at Arlington
10 years' experience

Academic Dean

Jason Jimerson
BA, Cameron University
MSM, Kaplan University
21 years' experience

Director of Education

Rick Calverley
25 years' experience

Education Supervisors

George Deaver-Welding
38 years' experience

Rene Hernandez-Collision/EEST
8 years' experience

Steven Midkiff-Diesel
12 years' experience

Stephen Reed-HVAC/CNC
9 years' experience

Larry Fraley-Auto
30 years' experience

Faculty

AUTO/DIESEL

Bryan K. Anderson
27 years' experience

Ralph C. Andrade
31 years' experience

Terry Allen Bollinger
33 years' experience

Matthew Steven Glidewell
13 years' experience

Marcus Steven Glidewell
10 years' experience

Patrick Michael Hoisington
8 years' experience

Rogaciano Jaramillo
10 years' experience

Jimmie Kidd
45 years' experience

Michael Scott McCullar
15 years' experience

Charles M. Pike II
21 years' experience

Jeffrey Scott Unruh
10 years' experience

Alan Joseph Reimer
30 years' experience

Richard Allen Schermerhorn
25 years' experience

Christopher Michael Garrett
18 years' experience

Edward Lynn Watters
33 years' experience

Michael P. Angell
16 years' experience

Lewis Wayne O'Neal
15 years' experience

Jonathan Michael Heath
22 years' experience

Ryan David Gibson
13 years' experience

Adam Wayland Grizzle
10 years' experience

A/C REFRIGERATION

Neil Douglas Bohon
30 years' experience

Ramon Bueno
15 years' experience

Richard J. Ehrhardt
11 years' experience

David James Piper Jr.
27 years' experience

Juan Jesse Torres
4 years' experience

Faisal Al Faisil
7 years' experience

LaDan E. Allen
16 years'experience

Todd Mitchell Bulthius
5 years' experience

Larry Jason Clark
20 years'experience

WELDING

Kenneth Allen Gyure
4 years' experience

Ian Charles Velarde
4 years' experience

Patrick Noel Conti
17 years' experience

Cody Ryan Necaise
8 years' experience

Todd R. Waller
27 years' experience

Jose Miguel Espinosa
16 years' experience

Hunter Christian Moldenhauer
7 years' experience

Cedric Dion Gage II
15 years' experience

Jaylen Hicks
13 years' experience

Peter Quintana-Perez
8 years' experience

Robert Spencer Ramsey
6 years' experience

CNC

Phil Andrews
30 years' experience

Christopher T. Armijo
8 years' experience

Edward Burton Baxley
38 years' experience

Andy H. Phan
5 years' experience

Gary M. Bogan
49 years' experience

Bradley Burns Cutchall
9 years' experience

COLLISION

Joshua Arnold
5 years' experience

Adam Coffey
17 years' experience

Kathleen Vandom
14 years' experience

EEST

Theodore Farina
Master Electrician
47 years' experience

David Olin Harrell
Master Electrician
35 years' experience

Reynaldo Hernandez
Journeyman Electrician
25 years' experience

Richard Honeycutt
Journeyman Electrician
24 years' experience

Daniel Franck Temomo Kuete
Master Electrician
13 years' experience

Julius Jermaine Jenkins
Journeyman Electrician
13 years' experience

Charles Ernest Sypherd III
Journeyman Electrician
13 years' experience

David Wayne Prickette
Master Electrician
23 years' experience

Scott Sower
Journeyman Electrician
23 years' experience

Ernest Elisher
Journeyman Electrician
25 years' experience

Ignacio Jack Burcie
Master Electrician
31 years' experience

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7225 Winton Drive
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Indianapolis, IN 46268
(317) 632-5553

Schedule of Fees Catalog Addendum
For all Enrollments on or after July 1, 2025

Automotive Service Management Technology - AUXX100AS		
1545-Hour Day, Afternoon or Evening Program		
Tuition	$	40,472.00
Books	$	589.00
Uniforms	$	75.00
Student Fees	$	726.00
Technology Fee	$	150.00
Estimated Cost of Tools	$	1,819.00
Total	**$**	**43,831.00**

Automotive Service Technology - AUXX100		
1320-Hour Day, Afternoon or Evening Program		
Tuition	$	36,817.00
Books	$	369.00
Uniforms	$	75.00
Student Fees	$	726.00
Technology Fee	$	150.00
Estimated Cost of Tools	$	1,819.00
Total	**$**	**39,956.00**

Diesel and Truck Service Technology - MHTX100		
1320-Hour Day, Afternoon or Evening Program		
Tuition	$	36,817.00
Books	$	455.00
Uniforms	$	75.00
Student Fees	$	726.00
Technology Fee	$	150.00
Estimated Cost of Tools	$	1,819.00
Total	**$**	**40,042.00**

CNC Machining and Manufacturing Technology - CMMT100D		
900-Hour Day or Evening Program		
Tuition	$	21,680.00
Books	$	221.00
Uniforms	$	78.00
Student Fees	$	930.00
Technology Fee	$	150.00
Estimated Cost of Tools	$	1,794.00
Total	**$**	**24,853.00**

Collision Repair and Refinishing Technology - CRTX100		
1000-Hour Day or Evening Program		
Tuition	$	26,810.00
Books	$	-
Uniforms	$	75.00
Student Fees	$	750.00
Technology Fee	$	150.00
Estimated Cost of Tools	$	1,819.00
Total	**$**	**29,604.00**

Electrical and Electronic Systems Technology - ESTX100		
1200-Hour Day, Afternoon or Evening Program		
Tuition	$	29,380.00
Books	$	774.00
Uniforms	$	78.00
Student Fees	$	930.00
Technology Fee	$	150.00
Estimated Cost of Tools	$	1,682.00
Total	**$**	**32,994.00**

Welding and Fabrication Technology - WLDX100		
720-Hour Weekend Program		
Tuition	$	21,396.00
Books	$	621.00
Uniforms	$	191.00
Student Fees	$	1,944.00
Technology Fee	$	150.00
Estimated Cost of Tools	$	1,632.00
Total	**$**	**25,934.00**

Welding and Fabrication Technology with Pipefitting - WLDX300		
1200-Hour Day, Afternoon or Evening Program		
Tuition	$	35,660.00
Books	$	922.00
Uniforms	$	191.00
Student Fees	$	3,240.00
Technology Fee	$	150.00
Estimated Cost of Tools	$	1,632.00
Total	**$**	**41,795.00**

Air Conditioning, Refrigeration and Heating Systems Technology - HCRX100		
1200-Hour Day, Afternoon or Evening Program		
Tuition	$	29,740.00
Books	$	323.00
Uniforms	$	78.00
Student Fees	$	850.00
Technology Fee	$	150.00
Estimated Cost of Tools	$	1,685.00
Total	**$**	**32,826.00**

Air Conditioning, Refrigeration and Heating Systems Technology Service Management - HCRX100AS		
1425-Hour Day, Afternoon or Evening Program		
Tuition	$	33,395.00
Books	$	542.00
Uniforms	$	78.00
Student Fees	$	850.00
Technology Fee	$	150.00
Estimated Cost of Tools	$	1,685.00
Total	**$**	**36,700.00**

Collision Repair and Refinishing Technology Service Management - CRTX100AS		
1325-Hour Day, Afternoon or Evening Program		
Tuition	$	33,146.00
Books	$	220.00
Uniforms	$	75.00
Student Fees	$	825.00
Technology Fee	$	150.00
Estimated Cost of Tools	$	1,819.00
Total	**$**	**36,235.00**

Electrical and Electronic Systems Technology Service Management - ESTX100AS		
1425-Hour Day, Afternoon or Evening Program		
Tuition	$	33,035.00
Books	$	994.00
Uniforms	$	78.00
Student Fees	$	930.00
Technology Fee	$	150.00
Estimated Cost of Tools	$	1,682.00
Total	**$**	**36,869.00**

Transcript Request Fee: $10.00

Diploma Replacement Fee: $25.00 + shipping

Hussmann TechX (Supermarket Refrigeration)

DAY/AFTERNOON SEMINAR

GP Grand Prairie Campus

total instructional hours. . . 240
weeks to complete–day/aft . approximately 8 (includes holidays and scheduled breaks)

***The listing of credits is not meant to imply that credits can be transferred into college or other private career school programs. Transfer credits are at the sole discretion of the receiving school.**

program objective

The dramatic growth of the HVACR industry in recent years coupled with the reduced number of young people entering the skilled trades has left the Supermarket Refrigeration Service industry in a potential crisis. As the demand for skilled technicians increases, the number of available technicians shrinks as the current workforce begins to retire. Per the Bureau of Labor Statistics, Supermarket Refrigeration Service Technician is currently the most difficult position to fill with an average time period of 44 days between job posting and filling the position. Due to the level of complexity of supermarket refrigeration equipment, entry-level technicians typically require 2-6 months of on-the-job training before they can work unsupervised. The goal of the TechX program is to make the Supermarket Refrigeration Service Industry more accessible to students who have completed post-secondary HVAC training programs.

In order to prepare HVAC students with advanced skills in Supermarket Refrigeration, the common principles of HVAC will be reviewed and expanded on in light of the equipment used in the Supermarket Refrigeration Industry. Students will learn how to service and maintain self-contained cases, remote cases, walk-in coolers and freezers. They will be introduced to microprocessor-based controls and basic preventive maintenance practices. Students will receive training on conventional condensing units and rack systems with remote condensers that are commonly used in the Supermarket Refrigeration Industry. In addition, students' Employability Skills will be enhanced through a study of the Hussmann Behaviors for Success. Upon completion of this course, students will be prepared to perform preventive maintenance and low-level service calls on Supermarket Refrigeration equipment.

admissions requirements

Candidates for Hussmann TechX must meet or exceed the following requirements prior to admission:

- Graduate from an approved post-secondary HVAC program before the Hussmann classes begin.
- Attained a minimum of a 2.5 grade point average during their post-secondary education.
- Achieved a documented minimum of 90% attendance during their post-secondary education.
- Must pass a Hussmann assessment.
- Valid U.S. driver's license and able to drive standard shift.
- Acceptable driving record.
- Drug free; must be able to pass a drug test at any time and have no criminal or gang affiliation.
- Have an updated resume for the interview and must participate in an acceptance interview.
- Must agree to a minimum of one year of employment with Hussmann.
- Willingness to relocate; relocation may be necessary to become a career Hussmann technician.
- Have the desire to be a team player and present a professional appearance.

Hussmann Services Corporation does not discriminate against any seminar participant or applicant or against any employee or applicant for employment, because of race, color, religion, sex, sexual preference, age, national origin, disability or veteran status.

number	course	lecture hours	lab/shop hours	total hours	prerequisite
HCC1	**Refrigeration Basics**	**10**	**20**	**30**	
HCC2	**Refrigeration Electrical**	**20**	**40**	**60**	
HCC3	**Piping and Brazing**	**10**	**20**	**30**	
HCC4	**Refrigeration Components**	**20**	**40**	**60**	
HCC5	**RMCS Controls**	**10**	**20**	**30**	
HCC6	**Preventative Maintenance**	**10**	**20**	**30**	
	TOTALS	**80**	**160**	**240**	

NOTE: Course numbers and sequences are listed here for reference only. The actual delivery sequence of courses contained in this seminar may vary depending upon scheduling needs.

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This program is out of the commission's scope of accreditation and is not approved by ACCSC.

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HCC1–REFRIGERATION BASICS

30 Contact Hrs (10 Lecture, 20 Lab/Shop)

This course is a review of refrigeration safety, fundamentals, and the refrigeration cycle. Refrigerants, refrigerant oil, and recovery/ evacuation/ charging best practices will also be covered. Students will be introduced to the equipment in the Supermarket Refrigeration lab, and lab work is designed to familiarize students with cases, walk-ins, racks, and condensing units that most will not have worked on before.

Prerequisite: None

HCC2–REFRIGERATION ELECTRICAL

60 Contact Hrs (20 Lecture, 40 Lab/Shop)

This course is a review of electrical safety and fundamentals. Students will review basic circuits and Ohm's Law as well as proper use of the digital multimeter. They will receive training on reading wiring diagrams and schematics, electrical components common to supermarket refrigeration equipment, and basic troubleshooting procedures. Much of the time spent in the lab will be familiarizing students with new types of equipment and giving them a fundamental understanding of how the electrical components work together. Students will be given "service calls" on all types of equipment and be required to troubleshoot and solve common supermarket refrigeration electrical problems.

Prerequisite: None

HCC3–PIPING AND BRAZING

30 Contact Hrs (10 Lecture, 20 Lab/Shop)

This course is a study of the materials, equipment, and processes for installing field piping in supermarkets. Methods of joining copper tubing, brazing, and soldering will be covered. Students will also become familiar with layout and design issues for supermarket refrigeration field piping, especially sizing and oil return. Students will have the opportunity to pipe in, leak check, evacuate, and start up a conventional system as a part of this one-week module.

Prerequisite: None

HCC4–REFRIGERATION COMPONENTS

60 Contact Hrs (20 Lecture, 40 Lab/Shop)

This course is an in-depth study of the electromechanical controls and components common to refrigeration systems. In order to be able to troubleshoot refrigeration equipment, a thorough understanding of all system components and how they work together is necessary. Students will begin by studying the least complex (self-contained cases), then study the components and operation of conventional units tied to remote cases. Finally, students will be introduced to rack refrigeration and the function of the valves, electromechanical controls, and other components. Students will be given "service calls" that allow them to troubleshoot and solve common supermarket refrigeration mechanical problems.

Prerequisite: None

HCC5–RMCS CONTROLS

30 Contact Hrs (10 Lecture, 20 Lab/Shop)

This course is a study of common micro-processor based controls used in the supermarket refrigeration industry. Students will be introduced to system components (interfaces, relay boards, AI and DI boards, etc) and how they are configured. Students will learn how to navigate through the menus of Emerson E2 controllers in order to view system alarms, status, and logs. Students will learn how to put circuits into emergency defrost.

Prerequisite: None

HCC6–PREVENTATIVE MAINTENANCE

30 Contact Hrs (10 Lecture, 20 Lab/Shop)

This course is a study of the practices and procedures necessary to maintain supermarket refrigeration equipment in proper working order. Best practices for leak checking and coil washing will be covered, and students will learn what to look for while performing PM's on equipment in the lab.

Prerequisite: None