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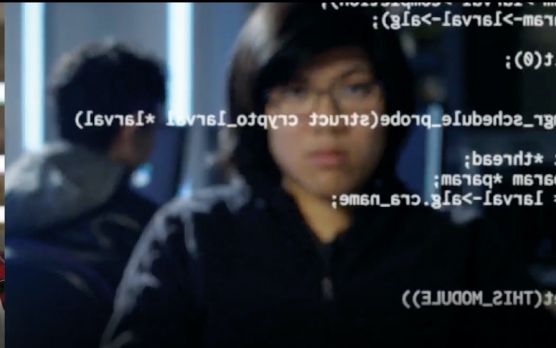
Addendum

LOS ANGELES TRADE-TECH
LATTC
A Community College

2021-2022



CONSTRUCTION
Maintenance & Utilities
Pathway



BUSINESS &
Civic Engagement
Pathway



CULINARY ARTS
Pathway



DESIGN & MEDIA ARTS
Pathway



COSMETOLOGY
Pathway



APPLIED SCIENCES
Pathway



HEALTH
& Related Sciences
Pathway



Advanced
TRANSPORTATION &
Manufacturing Pathway



LIBERAL ARTS
& Transfer Prep
Pathway

COLLEGE TO CAREER, IT'S ALL HERE!

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PROGRAM UPDATES

Business & Civic Engagement Pathway (BCE)

Amazon Web Services

Certificate of Achievement

Required Units: 12

Program Overview

The Cloud Computing Certificate prepares students to design solutions for Infrastructure as a Service (IaaS) architectures by provisioning computing instances, establishing virtual private networks, managing databases and storage within a secure online environment. Students produce dynamic solutions responsive to information and computing technology workloads with on-demand pay-as-you-go pricing allowing flexibility for small business, entrepreneurship and enterprise adoption.

The certificate prepares students for the following occupations:

- Cloud Architect
- Cloud Support Associate
- Cloud Engineer
- Cloud Technician

Program Learning Outcomes

Upon Completion of the program, students will be able to:

1. Design Infrastructure as a Service (IaaS) solutions by provisioning computing instances, establishing virtual private networks, managing databases and storage within a secure online environment.
2. Analyze performance metrics of a cloud architecture to respond dynamically to information and computing technology workloads and optimize service costs.
3. Collaborate in a team designing business solutions in an industry aligned project.

Required Courses

Semester I	Units
CIS 192 Introduction to Cloud Computing	3
CIS 193 Database Essentials in Amazon Web Services	3
Semester II	Units
CIS 194 Compute Engines in Amazon Web Services	3
CIS 195 Security in the Cloud	3

Construction Maintenance & Utilities Pathway (CMU)

Operating Engineer

Program Overview

Most craft workers specialize in one kind of work, such as plumbing or carpentry. General maintenance and repair workers, however, have skills in many different crafts. They repair and maintain machines, mechanical equipment, and buildings. They also work on plumbing, electrical, and air conditioning and heating systems. They build partitions, make plaster or drywall repairs, and fix or paint roofs, windows, doors, floors, woodwork, and other parts of building structures. In addition, they maintain and repair specialized equipment and machinery found in cafeterias, laundries, hospitals, stores, offices, and factories.

A general maintenance worker's typical duty includes troubleshooting and fixing faulty electrical switches, repairing air-conditioning motors, and unclogging drains. In addition, newer buildings sometimes have computer-controlled systems that allow maintenance workers to make adjustments in building settings and monitor for problems from a central location; for example, they can remotely control light sensors that turn off lights automatically after a set amount of time or identify a broken ventilation fan that needs to be replaced.

General maintenance and repair workers inspect and diagnose problems and determine the best way to correct them, frequently checking blueprints, repair manuals, and parts catalogs. They obtain supplies and repair parts from distributors or storerooms. Using common hand and power tools such as screwdrivers, saws, drills, wrenches, and hammers, as well as specialized equipment and electronic testing devices, these workers replace or fix worn or broken parts, where necessary, or make adjustments to correct malfunctioning equipment and machines.

General maintenance and repair workers also perform routine preventive maintenance tasks to ensure that machines continue to run smoothly, building systems operate efficiently, and the physical condition of buildings does not deteriorate. Following a checklist, they may inspect drives, motors, and belts, check fluid levels, replace filters, and perform other maintenance actions. Maintenance and repair workers keep records of their work.

The "Certified Steam Boiler License" is a specialized certification required for many maintenance workers. LATTC offers a Certificate of Achievement-Steam Plant to address this need. The core of the program is designed to prepare students to take the Boiler/Steam Plant certification exam, while the remainder is structured to create students who possess an array of skills which would be transferable to a variety of job settings, creating a highly capable general maintenance worker.

By fulfilling the program requirements, students will have the necessary skills for entry and mid level jobs in the general maintenance industry. This program prepares the student for basic electrical, heating and refrigeration, plumbing, and carpentry work, and to pass the "Certified Boiler/Steam Plant" License exam.

Program Learning Outcomes

Upon completion of the Certificate program, students are able to:

- Use and interpret technical manuals to properly identify all major components of a high and low pressure boiler system and state and describe their function.
- Demonstrate sustainable industry principles and practices.
- Apply the proper procedures for calculation and measurement necessary in the operations and maintenance field.
- Safely use appropriate materials, test equipment and tools in order to connect and or troubleshoot a high and low pressure boiler system in addition use charging, evacuation, and recovery equipment properly and safely on a heating, ventilation, air conditioning and refrigeration (HVACR).

Associates of Science Degree

Major Units: 46

General Education: 18 units

An Associates of Science in Operation & Maintenance Engineer: may be earned by completing 46 units of Required Courses and 18 units of general education courses.

Required Courses

Semester I			Units
OPMA AP	724	Fundamentals of Electricity	2
OPMA AP	704	Electric Motor Control I for Apprentices	2
Semester II			
OPMA AP	747	Electrical Troubleshooting	2
OPMA AP	100	OSHA - 30	2
Semester III			
OPMA AP	720	HVACR I	2
OPMA AP	749	HVACR II	2
Semester IV			
OPMA AP	744	HVACR Control Systems	2
OPMA AP	748	National Electrical Code	4
Semester V			
OPMA AP	753	Boilers for Apprentices	4
OPMA AP	745	Plumbing Code	4
Semester VI			
OPMA AP	746	Maintenance Plumbing Principles & Practices	2
OPMA AP	727	Industrial Mechanics for Apprentices	2
Semester VII			
OPMA AP	750	Indoor Air Quality	4
OPMA AP	703	Energy Management	4

Semester VII

OPMA AP	751	Print Reading	4
OPMA AP	740	Tenant Relations & Reports for Apprentices	4

Elective Courses:

OPMA AP	739	Locksmithing and Security Systems for Apprenticeship	4
OPMA AP	040	Hazwoper	2
OPMA AP	760	Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems	4
OPMA AP	770	Building Owners and Managers Association (Boma) - Test Preparation	4
OPMA AP	780	Gas Tungsten Arc and Shielded Metal Arc Welding	4
REF A/C	208	Refrigerant Management - EPA Section 608 Certification	4

Certificate of Achievement**Major Units: 46**

A Certificate of Achievement in Operation Maintenance Engineer: may be earned by completing 46 units of Required Courses of required courses.

Design & Media Arts Pathway (DMA)

Fashion Merchandising

Associate in Science Degree

Major Units: 33

Elective Units: 5

General Education Units: 22

Total Required Units: 60

Program Overview

Fashion Merchandising is the-planning, organization, and development of fashion products to be sold at a profit. The program at LATTC is unique in that it offers instruction covering both manufacturing processes and retail expertise. Computer technology plays an important role in the program offering instruction on AIMS software.

Required Courses

Semester I	Units
FASHMER 010 Retail Merchandising	3
FASHMER 025 Fashion and Industry Interchange	3
FASHMER 035 Fashion Promotion	3
Semester II	Units
FASHMER 020 Apparel Product Development	3
FASHMER 030 Wholesale Merchandising	3
FASHDSN 244 Photoshop for Fashion Design	2
-orVISCOM 129 Digital Photo Manipulation	2
-orFASHDSN 270 Illustrator for Fashion Design	2
Semester III	Units
FASHMER 001 Entrepreneurial Fashion	3
FASHMER 040 Modern Merchandising Math	3
FASHMER 041 Fashion Merchandise Buying	3
FASHMER 050 International Fashion Business	3
Semester IV	Units
FASHMER 941 Cooperative Education – Fashion Merchandising	4
ELECTIVES	5
Elective Courses	
Cultural Perspectives of Dress FASHMER 021	3
Visual Display FASHMER 015	3
Fashion eCommerce FASHMER 045	3
Fashion Show Production FASHDSN 127	2

Sample Making and Design I FASHDSN 222	2
History of Costume FASHDSN 119B	1.5
Textile Science FASHDSN 125A	1.5
Public Speaking COMM 101	3
Introduction to Digital Media DGLMD 100	3
Fundamentals of Digital Media DGLMD 101	3

Fashion Merchandising

Certificate of Achievement

Major Units: 33

Elective Units: 5

Requirements for the Certificate of Achievement in Fashion Merchandising may be met by completing 33 units of Required Courses and 5 units of elective courses listed under the Associate degree in Fashion Merchandising with a “C” or better in each course.

Retail Merchandising

Certificate of Achievement

Required Units: 21

Program Overview

The Certificate in Retail Merchandising is designed to prepare students for employment in the retail industry.

Career opportunities for students completing this program of study include, but are not limited to:

- SOC Code 41-1011 First line supervisors of retail sales associates
- SOC Code 27-1026 Merchandise Displayers and Window Trimmers
- SOC Code 13-1022 Wholesale and Retail Buyers

By fulfilling the program requirements, students will have the necessary knowledge and skills in retail management, retail buying and product development, visual communications and display, online retail management, fashion promotion and marketing, and fashion business entrepreneurship.

Program Learning Outcomes

Upon completion of the Degree/Certificate program, students are able to develop operational and promotional activities necessary to launch and sell brands and / or private labels for a retail business.

Required Courses

Semester I		Units
FASHMER 010	Retail Merchandising	3
FASHMER 035	Fashion Promotion	3
FASHMER 045	Fashion Ecommerce	3
FASHMER 015	Visual Display for Retail	3

Semester II		Units
FASHMER 001	Entrepreneurial Fashion	3
FASHMER 041	Fashion Merchandise Buying	3
FASHMER 020	Apparel Product Development	3

Wholesale Merchandising

Certificate of Achievement

Required Units: 19

Program Overview

The Certificate in Wholesale Merchandising is designed to prepare students for employment in the wholesale industry. Career opportunities for students completing this program of study include, but are not limited to:

SOC Code 41-4102 Sales Representatives
 SOC Code 11-3061 Purchasing Managers
 SOC Code 13-1022 Wholesale and Retail Buyers

By fulfilling the program requirements, students will have the necessary knowledge and skills in wholesale product development, sales, and merchandising, apparel industry PLM systems and wholesale costing practices.

Program Learning Outcomes

Upon completion of the Degree/Certificate program, students are able to develop operational practices necessary to develop and sell products for a wholesale business.

Required Courses

Semester I		Units
FASHMER 020	Apparel Product Development	3
FASHDSN 222	Sample Making and Design I	2
FASHDSN 119B	History of Costume	1.5
FASHDSN 125A	Textile Science	1.5
Semester II		Units
FASHMER 030	Wholesale Merchandising	3
FASHMER 040	Modern Merchandising Math	3
FASHMER 050	International Fashion Business	3
VISCOM 129	Digital Photo Manipulation	2
Or FASHDSN 244	Photoshop for Fashion Design	2
Or FASHDSN 270	Illustrator for Fashion Design	2

Fashion Media

Certificate of Achievement

Required Units: 19

Program Overview

The Certificate in Fashion Media is designed to prepare students for employment in the retail industry. Career opportunities for students completing this program of study include, but are not limited to:

Advertising and Promotions Managers (SOC Code 11-2011)
 Marketing Managers (SOC Code 11-2021)
 Public Relations Specialists (SOC Code 27-3031)

By fulfilling the program requirements, students will have the necessary knowledge and skills in fashion promotion and marketing, fashion eCommerce, digital marketing and media, and fashion media entrepreneurship.

Program Learning Outcomes

Upon completion of the Degree/Certificate program, students are able to develop promotional activities using various media platforms for the purpose of branding and marketing a successful fashion business.

Required Courses

Semester I		Units
FASHMER 035	Fashion Promotion	3
FASHDSN 147	Fashion Show Production	2
DIGMD 100	Introduction to Digital Media	3
DIGMD 101	Fundamentals of Digital Media	3
Semester II		Units
FASHMER 001	Entrepreneurial Fashion	3
OR DIGMD 104	Digital Media Entrepreneurship	3
VISCOM 129	Digital Photo Manipulation	2
OR FASHDSN 244	Photoshop for Fashion Design	2
OR FASHDSN 270	Illustrator for Fashion Design	2
FASHMER 045	Fashion eCommerce	3

Health and Related Sciences Pathway (HRS)

Nutrition & Dietetics

Nutrition & Dietetics

Associate in Science for Transfer Major: 26-28 units

PROGRAM OVERVIEW

The Associate in Science in Nutrition and Dietetics for Transfer AS-T allows students interested in pursuing a degree in Nutrition and Dietetics to complete lower-division coursework required to transfer into the CSU system, which offers a Bachelor of Science degree in Nutrition and Dietetics. The study of Nutrition provides a broad foundation in a practical and personally applicable exposure to a variety of scientific areas of nutrition such as chemistry, biochemistry, microbiology, anatomy, physiology, and biology. The program also helps students understand the role of nutrition in disease prevention throughout the lifecycle and as an impact on society as a whole. The study of nutritional science contributes to preparing students for careers as nutritionists, registered dietitians (RD), food scientists, or other dietetics professionals.

Program Learning Outcomes:

Students will be able to:

1. Effectively demonstrate knowledge of nutrition science including an analysis of information sources, and an examination of the scientific method in relation to current nutrition research.
2. Analyze and explain the relationship between diet, lifestyle, and health outcomes, within the framework of cultural and social influences.

Degree Requirements

Completion of 60 transferable semester units to the California State University.

Obtainment of a minimum grade point average of 2.0 in all transferable coursework.

Full completion of one of the following General Education patterns:

California State University General Education – Breadth Requirements (CSUGE).

The Intersegmental General Education Transfer Curriculum (IGETC) for CSU, with completion of Area 1C Oral communication (CSU admission requirement)

A minimum of 26 semester units required for the major

All courses in the major must be completed with a grade of “C” or better or a “P” if the course is taken on a “Pass-No Pass” basis (Title 5 § 55063)

DEGREE COURSE REQUIREMENTS

Required Core courses		15 Units
CHEM 101	General Chemistry I	5
HEALTH 006	Nutrition for Healthful Living and Fitness Activities	3
MICRO 020	General Microbiology	4
PSYCH 001	Introduction to Psychology	3

LIST A: Select two course **8-10 units**

ANATOMY 001	Introduction to Human Anatomy	4
CHEM 102	General Chemistry II	5
CHEM 211	Organic Chemistry for Science Majors	5
MATH 227	Statistics	

OR

MATH 227S	Statistics with Support	4
PHYSIOL 001	Introduction to Human Physiology	4

List B: Select one course **3 units**

ANTHRO 102	Human Ways of Life: Cultural Anthropology	3
MATH 245	College Algebra	3
SOC 001	Introduction to Sociology	3

Total units	26-28
CSU GE or IGETC Pattern	37-39
Transferable Electives as needed to reach 60 CSU units	
Total Degree Units	60

NOTE: The requirements for the AS-T in Nutrition and Dietetics for Transfer degree were chosen solely to meet similar degrees of the Transfer Model Curriculum in Nutrition and Dietetics and may not be adequate preparation for all CSU campuses or to institutions outside of the CSU system. It is critical for students interested in this major to work with their counselor to develop an individual academic plan.

NUTRITION & DIETETICS AS-T:
Similar programs at local CSU campuses.

Chico	Nutrition and Food Sciences	Food and Nutrition Communication	BS
Chico	Nutrition and Food Sciences	General Dietetics	BS
Chico	Nutrition and Food Sciences	Nutrition Management	BS
Long Beach	Dietetics and Food Administration	Nutrition and Dietetics	BS
Sacramento	Family and Consumer Sciences	Nutrition and Food	BS
San Francisco	Nutrition and Dietetics	Foods and Community Nutrition	BS
San Jose	Humanities	Liberal Arts	BA
San Jose	Nutritional Science	Applied Nutrition and Food Sciences	BS

Declaring the major

Meet with a counselor to set the following plans and majors in PeopleSoft. (Required to allow you to apply for graduation online.)

Nutrition & Dietetics AST

A.A. degree in Liberal Arts & Sciences: Emphasis in Mathematics, Physical and Natural Sciences

CSU GE or IGETC Certificate of Achievement

Preparing for Graduation

Please log in to PeopleSoft Student Portal to fill out the appropriate application for the degree/certificate and submit it before the deadline.

If you have attended any colleges or universities outside the Los Angeles Community College District and will be using coursework toward an associate degree, Certificate of Achievement or GE Certification, we require official transcripts to be on file with Admissions and Records. This also applies to any coursework taken within our District prior to Spring 1974. Transcripts from other institutions must be mailed directly to the Admissions & Records Office by the respective colleges for credit.

If you are going to use courses from colleges or universities outside of the California Community College system, you should make an appointment with a counselor for a transcript evaluation to determine which courses can be used towards your degree or certification. It is highly recommended that all students who start at LATTC meet with a counselor to discuss their transfer educational goals.

Applying for Graduation (Degree and Certificate)

Log on to your PeopleSoft portal and navigate to:

Academic Records > My Academics > Petition for Graduation

Apply within the first 6 weeks of the current semester.

Applications submitted after deadline may be reviewed for the subsequent semester.

Pre-Health Professions I

Certificate of Achievement

Required Units: 13 units

Program Overview

The health related professions will continue to be in high demand. Our students aim to enter fields such as nursing, medicine, dentistry, pharmacy, occupational therapy and physical therapy. The Pre-Health Professions I and II Certificates will provide the core courses in biology, chemistry, and mathematics needed to apply to these health related programs.

After completing these courses, students will be able to apply the process of science to the study of life and human health. In addition, students will be able to apply basic chemistry concepts to perform experiments and use algebraic skills needed in the scientific field.

Students will have the knowledge and skills to help prepare them to take the required admission exams. For example, students will be prepared to take the TEAS exam to apply for the Registered Nursing Program at LATTC.

The Pre-Health Professions II Certificate follows the Pre-Health Professions I Certificate.

Program Learning Outcomes

- Describe basic principles in biology, chemistry, and mathematics needed to understand human health.

Required Courses

Semester I		Units
ENGLISH 101	College Reading and Composition I	3
Semester II		
PSYCH 001	General Psychology I	3
ANATOMY 001	Introduction to Human Anatomy	4
Elective Courses		
PSYCH 041	Life-Span Psychology: From Infancy to Old Age	3

New Non-Credit Certificate

Auto Technician (ASE A1 & A8 Test Prep)

Certificate of Completion

Award Title	Academic Plan
Auto Technician (ASE A1 & A8 Test Prep)	T041012E

Program Overview

This online certificate can improve career opportunities and advancement. Automotive Service Excellence (ASE) certification can give students and technicians others the edge when being considered for a promotion or other career opportunities in a garage, dealership, or public transportation. This will help students with their test readiness and ease anxiety before taking the actual ASE A1 Engine Repair, ASE A8 Engine Performance, and G1 Auto Maintenance and Light Repair certification test. This certificate introduces automotive diagnosis, repair, and ongoing maintenance on engines, Fuel Injection systems and computer control systems. The content will carry basic and advance information on the latest technology of today's vehicles.

Program Learning Outcomes (PLOs)

Upon completion of the Auto Technician Certificate program, students can develop service and diagnostic skills when working on vehicles.

Required Courses		Units
VOC ED 451	Engine Repair A1 ASE Preparation	0
VOC ED 458	Engine Performance A8 ASE Preparation	0
VOC ED 459	Auto Maintenance and Light Repair ASE G1 Preparation	0

Drive Train Technician (ASE A2 & A3 Test Prep)

Certificate of Completion

Award Title	Academic Plan
Drive Train Technician (ASE A2 & A3 Test Prep)	T040965E

Program Overview

This online certificate can improve career opportunities and advancement. Automotive Service Excellence (ASE) certification can give students and technicians the edge when being considered for a promotion or other career opportunities in a garage, dealership, auto supply store, or public transportation. Completing this certificate program prepares students to pass ASE certification tests in a specialized area of Manual Transmissions, Automatic Transmissions and Differential assemblies. This will help students with their test readiness and ease anxiety before taking the actual ASE A2 Automatic Transmission/Transaxle and ASE A3 Manual Transmission/Transaxle

certification test. The content will carry basic and advance information on the latest technology of today's vehicles.

Program Learning Outcomes (PLOs)

Upon completion of the Drive Train Technician Certificate program, students can develop service and diagnostic skills when working on vehicles.

Required Courses		Units
VOC ED 452	Automatic Transmission/Transaxle (A2) ASE Preparation	0
VOC ED 453	Manual Transmission/Transaxle (A3) ASE Preparation	0

**Chassis Technician (ASE A4 & A5 Test Prep)
Certificate of Completion**

Award Title	Academic Plan
Chassis Technician (ASE A4 & A5 Test Prep)	T041013E

Program Overview

This online certificate can improve career opportunities and advancement. Automotive Service Excellence (ASE) certification can give students, technicians, and others the edge when being considered for a promotion or other career opportunities in a garage, dealership, auto supply store, or public transportation. Completing this certificate program prepares students to pass ASE certification tests in a specialized area of brakes, steering, and suspension systems. This will help students with their test readiness and ease anxiety before taking the actual ASE A4 Suspension & Steering and ASE A5 Brakes and certification test. The content will carry basic and advance information on the latest technology of today's vehicles.

Program Learning Outcomes (PLOs)

Upon completion of the Chassis Technician Certificate program, students can develop service and diagnostic skills when working on vehicles.

Required Courses		Units
VOC ED 454	Suspension and Steering (A4) ASE Preparation	0
VOC ED 455	Brakes (A5) ASE Preparation	0

**AC Technician (ASE A6 & A7 Test Prep)
Certificate of Completion**

Award Title	Academic Plan
AC Technician (ASE A6 & A7 Test Prep)	T040966E

Program Overview

This online certificate can improve career opportunities and advancement. Automotive Service Excellence (ASE) certification can give students, technicians, and others the edge when being considered for a promotion or other career opportunities in a garage, dealership, auto supply

store, or public transportation. This will help students with their test readiness and ease anxiety before taking the actual ASE A6 Electrical/Electronic Systems and ASE A7 Heating and Air Conditioning certification test. The content will carry basic and advance information on the latest technology of today’s vehicles.

Program Learning Outcomes (PLOs)

Upon completion of the A/C Technician Certificate program, students can develop service and diagnostic skills when working on vehicles.

Required Courses		Units
VOC ED 456	Electrical/Electronic Systems (A6) ASE Preparation	0
VOC ED 457	Heating and Air Conditioning (A7) ASE Preparation	0

**Advanced Engine Performance Technician (ASE A6, A8 & L1 Test Prep)
Certificate of Completion**

Award Title	Academic Plan
Advanced Engine Performance Technician (ASE A6, A8 & L1 Test Prep)	T041010E

Program Overview

This online certificate can improve career opportunities and advancement. Automotive Service Excellence (ASE) certification can give students and technicians others the edge when being considered for a promotion or other career opportunities in a garage, dealership, or public transportation. This will help students with their test readiness and ease anxiety before taking the actual ASE A6 Electrical/Electronics, ASE A8 Engine Performance, and L1 Advanced Engine Performance Specialization certification test. This certificate introduces automotive diagnosis, repair, and ongoing maintenance on Electrical systems, Fuel Injection, emissions, and computer control systems. The content will carry basic and advance information on the latest technology of today’s vehicles.

Program Learning Outcomes (PLOs)

Upon completion of the Advanced Engine Performance Technician Certificate program, students can develop service and diagnostic skills when working on vehicles.

Required Courses		Units
VOC ED 456	Electrical/Electronic Systems (A6) ASE Preparation	0
VOC ED 458	Engine Performance A8 ASE Preparation	0
VOC ED 460	Auto Engine Performance Specialist ASE L1 Preparation	0

**Master Auto Technician (ASE 1-8 Test Prep)
Certificate of Completion**

Award Title	Academic Plan
Master Auto Technician (ASE 1-8 Test Prep)	T041014E

Program Overview

This online certificate can improve career opportunities and advancement. Automotive Service Excellence (ASE) certification can give students and technicians the edge when being considered for a promotion or other career opportunities in a garage, dealership, or public transportation. This will help students with their test readiness and ease anxiety before taking the actual ASE A1 Engine Repair, ASE A2 Automatic Transmission/Transaxle, A3 Manual Transmission/Transaxle, ASE A4 Suspension and Steering, A5 Brakes, ASE A6 Electrical/Electronics, ASE A7 Heating and Air Conditioning, and ASE A8 Engine Performance certification test. The content will carry basic and advance information on the latest technology of today's vehicles.

Program Learning Outcomes (PLOs)

Upon completion of the Master Auto Technician Certificate program, students can develop service and diagnostic skills when working on vehicles.

Required Courses		Units
VOC ED 451	Engine Repair A1 ASE Preparation	0
VOC ED 452	Automatic Transmission/Transaxle (A2) ASE Preparation	0
VOC ED 453	Manual Transmission/Transaxle (A3) ASE Preparation	0
VOC ED 454	Suspension and Steering (A4) ASE Preparation	0
VOC ED 455	Brakes (A5) ASE Preparation	0
VOC ED 456	Electrical/Electronic Systems (A6) ASE Preparation	0
VOC ED 457	Heating and Air Conditioning (A7) ASE Preparation	0
VOC ED 458	Engine Performance A8 ASE Preparation	0

Advanced Master Auto Technician (ASE A1-8 & L1 Test Prep) Certificate of Completion

Award Title	Academic Plan
Advanced Master Auto Technician (ASE A1-8 & L1 Test Prep)	T041011E

Program Overview

This online certificate can improve career opportunities and advancement. Automotive Service Excellence (ASE) certification can give students and technicians the edge when being considered for a promotion or other career opportunities in a garage, dealership, auto supply store, or public transportation. This will help students with their test readiness and ease anxiety before taking the actual ASE A1 Engine Repair, ASE A2 Automatic Transmission/Transaxle, A3 Manual Transmission/Transaxle, ASE A4 Suspension and Steering, A5 Brakes, ASE A6 Electrical/Electronics, ASE A7 Heating and Air Conditioning, ASE A8 Engine Performance, ASE G1 Auto Maintenance and Light Repair, and ASE L1 Advanced Engine Performance Specialist certification test. The content will carry basic and advance information on the latest technology of today's vehicles.

Program Learning Outcomes (PLOs)

Upon completion of the Advanced Master Auto Technician Certificate program, students can develop service and diagnostic skills when working on vehicles.

Required Courses		Units
VOC ED 451	Engine Repair A1 ASE Preparation	0
VOC ED 452	Automatic Transmission/Transaxle (A2) ASE Preparation	0
VOC ED 453	Manual Transmission/Transaxle (A3) ASE Preparation	0
VOC ED 454	Suspension and Steering (A4) ASE Preparation	0
VOC ED 455	Brakes (A5) ASE Preparation	0
VOC ED 456	Electrical/Electronic Systems (A6) ASE Preparation	0
VOC ED 457	Heating and Air Conditioning (A7) ASE Preparation	0
VOC ED 458	Engine Performance A8 ASE Preparation	0
VOC ED 459	Auto Maintenance and Light Repair G1 ASE Preparation	0
VOC ED 460	Auto Engine Performance Specialist ASE L1 Preparation	0

New and Revised Credit Courses

Modifications:

KIN MAJ 103 Introduction to Coaching Athletics (3)

Lecture: 3 hours

This course presents a comprehensive study of the organization and techniques of coaching athletic activities. Topics include facilities, management, budget, coaching techniques, philosophies, and administration.

KIN MAJ 104 Officiating Competitive Sports I (2)

Lecture: 1 hour / Lab: 2 hours

This course includes the theory, practice, and techniques of officiating various activities in the sports of football, basketball, soccer, cross country, water polo, and other fall sports.

KIN MAJ 107 Preparation for Certification Personal Fitness Trainer (3)

Lecture: 3 hours / Lab: 1 hour

Students learn the knowledge, skills, and abilities to become a Certified Personal Trainer. Students study how the muscular, skeletal, and cardio-respiratory systems function. Topics include anatomy and physiology, principles and methods of cardiovascular training, strength training, safety, nutrition, and weight.

Student Learning Outcome(s):

- 1) The student will be able to design an appropriate warm-up for a personal training client.
- 2) The student will be able to design an appropriate primary conditioning program for a personal training client. (Cardio, muscular strength or muscular endurance)

KIN MAJ 109 Women in Sport (3)

Lecture: 3 hours

This course provides students with a chronological history, analysis and interpretation of people, events, and issues that affect women in sports. Physiological, sociological, and psychological aspects of female athletes, as related to all areas of sports, are covered. Students gain an understanding of the significant events of women in athletics from the past to the present and how their significance determines the future of women in sports.

KIN MAJ 126 Fundamentals of Athletic Training (3)

Lecture: 2 hours / Lab: 2 hours

This course is designed for future athletic trainers, physical educators, coaches, physical therapists and any one else who plans on working with active individuals who are prone to injury. This course introduces the concepts and practical skills of athletic training, including the prevention, recognition, evaluation, and management of athletic injuries.

KIN MAJ 127 Advanced Athletic Training (3)

Lecture: 2 hours / Lab: 2 hours

Prerequisite: KIN MAJ 126

This course will build on the knowledge and skills introduced in Care and Prevention. The student will acquire more hands on experience and learn advanced techniques in the prevention, recognition, evaluation, and management of athletic injuries.

Student Learning Outcome(s):

Demonstrate proper injury/illness prevention, clinical evaluation and diagnosis, treatment, rehabilitation and documentation strategies required of an athletic trainer.

KIN MAJ 128 Care and Prevention of Athletic Injuries (3)

Lecture: 2 hours / Lab: 2 hours

This course introduces the basic concepts of athletic training, including instruction for prevention, recognition, management and treatment of common injuries in a physically active population. The skills of basic strapping, wrapping and taping for the prevention and support of injuries will be presented, practiced and evaluated. This class is recommended for those interested in becoming a Certified Athletic Trainer.

KIN MAJ 129 Advanced Care and Prevention of Athletic Injuries (3)

Lecture: 2 hours / Lab: 2 hours

Prerequisite: KIN MAJ 128

This course teaches advanced understanding and illustration of the care and prevention of athletic injuries. It encompasses advanced aspects of identifying common athletic injuries, emergency treatment, preventive measures, and associated follow-up care using advanced rehabilitation techniques.

KIN MAJ 130 Sports Medicine Clinic Practicum (2)

Lecture: 1 hours / Lab:3 hours

This class covers hands-on athletic training and experience in the administration, management, prevention, and treatment of athletic injuries.

DIESLTK 301 Introduction to Alternative Fuels & Hybrid and Electric Vehicle Technology (3)

Lecture: 3 hours

This course provides an introduction to various alternative fuel and powertrain technologies used in the automotive and heavy-duty vehicle fields. Description and basic operation of Bodies,

renewable fuel alternatives, Compressed Natural Gas (CNG), Liquefied Natural Gas (LNG), Fuel Cell hybrid, and Electric vehicle technologies is covered in the course.

Student Learning Outcome(s):

- Student will be able to explain the differences and similarities between hybrid, electric, and fuel cell vehicles
- Student will understand the differences between Compressed Natural Gas (CNG) and Liquefied Natural Gas (LNG)

MATH 265

Prerequisite: MATH 260 & MATH 241 Or MATH 241S Or MATH 260S

The first Calculus course in a three-course sequence. Topics include: functions, limits, continuity, techniques and applications of differentiation and integration, mean value theorem, Fundamental Theorem of Calculus, definite integrals.

Student Learning Outcome(s):

1. Use and interpret derivatives algebraically, graphically, and numerically to model rates of change in application problems (for example, velocity, acceleration, population growth)
2. Use and interpret integrals algebraically, graphically, and numerically to model summation in application problems (for example, distance traveled, average value, and areas of geometric figures).

REGNRSG 169 Introduction to Nursing Concepts (3.5)

Lecture: 3.5 hours

This course provides an introduction to nursing and roles of the nurse within healthcare systems, as well as profession related concepts and competencies that are essential to practice as an entry-level nurse. Emphasis is placed on LATTC's RN Programs conceptual model core values and integrating concepts for nursing practice.

Student Learning Outcomes:

Student will describe the application of nursing concepts as it pertains to providing and directing safe, quality patient care.

REGNRSG 170A Fundamentals of Nursing I (3)

Lecture: 1 hour / Lab: 6 hours

Prerequisite: REGNRSG 169

This course provides an introduction to the knowledge and skills needed to provide safe, quality care for adult and older adult patients. The theoretical foundation for basic nursing skills related to assessment, comfort, nutrition, elimination, infection control, mobility, hygiene, and body mechanics is presented. The student is given an opportunity to demonstrate these concepts and

skills in laboratory and clinical settings. An introduction to the nursing process provides a decision-making framework to assist students in developing effective clinical judgment skills

Student Learning Outcomes:

1. Demonstrate concepts for nursing practices in the provision of care for adult and older adult patients with common/uncomplicated alterations in health.
2. Apply concepts for nursing practice in the provision of care for adult and older adult patients with common/uncomplicated alternations in health.

REGNRSG 170B Fundamentals of Nursing II (3)

Lecture: 1 hour / Lab: 6 hours

Prerequisite: REGNRSG 170A

This course provides foundation to the roles of a nurse within healthcare systems, as well as profession related and patient care concepts. Emphasis is placed on the knowledge and skills needed for the provision of care for adult and older adult patients with common/uncomplicated alterations in health. The theoretical foundation for concepts related to the physiological basis for nursing practice, pharmacology and medication administration is also presented. The student is given an opportunity to demonstrate these concepts and skills in laboratory and clinical settings.

Student Learning Outcomes:

1. The student will be able to discuss the physiological basis for nursing practice, medication administration, and geriatric considerations.
2. The student will be able to apply pharmacology and pathophysiology concepts in the provision of care for adult and older adult patients with common/uncomplicated alterations in health.

REGNRSG 171 Nursing Simulation Lab, Basic (1)

Lab: 3 hours

Prerequisite: REGNRSG 169

This course is designed to allow students to practice and/or remediate basic nursing skills in a structured setting. The course will emphasize hands on skills, evidence-based practice and application of the nursing process in a simulated patient care setting. Students will work in the context of patient care scenarios that will be geared toward the level 1 objectives. In addition, the class will be individualized to meet students' needs.

Student Learning Outcomes:

Students will apply basic nursing skills in a simulated clinical setting

REGNRSG 172 Medical-Surgical Nursing I (4)

Lecture: 2 hours / Lab: 6 hours

Prerequisite: REGNRSG 170B & REGNRSG 171

This course focuses on the care of adult and older adult patients with stable medical/surgical health problems. Emphasis is placed on helping patients and their families cope with alterations

in body functions. Health and illness core concepts and professional concepts as it pertain to providing and directing safe, quality patient care is integrated throughout the course. Clinical experiences provide the student an opportunity to apply theoretical concepts and implement safe care to clients and selected groups in a variety of settings.

Student Learning Outcomes:

Student will be able to care for adult and older adult patients with common/uncomplicated alterations in health.

REGNRSG 173 Psychiatric-Mental Health Nursing (4)

Lecture: 2.5 hours / Lab: 4.5 hours

Prerequisite: REGNRSG 170B & REGNRSG 171

This course examines the concepts within the four domains of Person, Health and Illness, Environment, and Nursing. Emphasis is placed on the concepts within each domain including: metabolism, emergencies, stress & coping, mood & affect, cognition, addictive behavior, safety & infection control, diversity, health promotion, communication, professional behaviors, clinical reasoning/judgment, health care system, and ethics. The community as a site for care and support services is addressed. Clinical experiences provide the student an opportunity to apply theoretical concepts and implement safe patient care to patients in selected mental health settings. Upon completion, students should be able to analyze safe nursing care incorporating the concepts discussed in this course.

Student Learning Outcomes:

Students will use the nursing process in providing psychiatric and mental health care to patients. Student will use therapeutic communication techniques to form therapeutic alliances with psych-mental health patients.

REGNRSG 174 Nursing Simulation Lab, Intermediate (1)

Lab: 3 hours

The course provides opportunities for learners to practice and/or remediate more complex nursing skills and scenarios in a structured setting. The course emphasizes hands on skills, evidence-based practice, and application of the nursing process in a simulated clinical setting. A student-centered approach is used to facilitate application of theory content to clinical practice in a safe environment.

Student Learning Outcomes:

Students will be able to apply complex nursing skills and scenarios in a simulated setting.

REGNRSG 175 Medical-Surgical Nursing II (4)

Lecture: 2 hours / Lab: 6 hours

Prerequisite: REGNRSG 172 & REGNRSG 173 & REGNRSG 174

This course focuses on the care of adult and older adult patients with complex medical/surgical health problems. Emphasis is placed on helping patients and their families cope with alterations in body functions. Health and illness core concepts and professional concepts as it pertain to

providing and directing safe, quality patient care is integrated throughout the course. Clinical experiences provide the student an opportunity to apply theoretical concepts and implement safe care to clients and selected groups in a variety of settings.

Student Learning Outcomes:

Student will formulate a comprehensive plan of care for adult patients with deviations from normal that contribute to complex alterations in health.

REGNRSG 176 Reproductive Nursing and Womens Health (3.5)

Lecture: 2 hours / Lab: 4.5 hours

Prerequisite: REGNRSG 172 & REGNRSG 173 & REGNRSG 174

This course provides an integrative, family-centered approach to the care of mothers and newborns. Emphasis is placed on the reproductive health cycle and continuum, normal and high-risk pregnancies, normal growth and development, family dynamics and the promotion of healthy behaviors in patients. Clinical experiences provide the student an opportunity to apply theoretical concepts and implement safe patient care to mothers and newborns in a variety of settings.

Student Learning Outcomes:

The student will identify the characteristics of normal pregnancy, physiological and psychological elements, process of labor and delivery, post-partum care, and care of the newborn.

REGNRSG 177 Clinical Nursing Simulation, Advanced (1)

Lab: 3 hours

Prerequisite: REGNRSG 172 & REGNRSG 173 & REGNRSG 174

The course provides opportunities for learners to practice complex skills and scenarios in a structured setting. The course emphasized application of knowledge to the delivery of safe, evidence-based practice in the simulated clinical setting with a focus on complex adult and older adult conditions and women's health. A student-centered approach is used to facilitate application of theory content to clinical practice in a safe environment.

Student Learning Outcomes:

Students will be able to apply patient care skills to simulated clinical setting.

REGNRSG 178 Medical-Surgical Nursing III (3)

Lecture: 1.5 hours / Lab: 4.5 hours

Prerequisite: REGNRSG 175 & REGNRSG 176 & REGNRSG 177

This course focuses on advanced concepts of nursing care as they relate to adults and older adults with complex, multisystem alterations in health. Emphasis is placed on implementing time management and organizational skills while managing the care of patients with multiple needs and collaborating with the interdisciplinary team. Complex clinical skills, as well as priority setting, clinical judgment, and tenets of legal and ethical practice, are integrated throughout the

course. Clinical experiences provide the student an opportunity to apply theoretical concepts and implement safe care to patients and selected groups in a variety of settings.

Student Learning Outcomes:

Students will demonstrate classroom and clinical application of critical thinking and caring interventions for adult and older adult patients with deviations from normal that contribute to multisystem alterations in health.

REGNRSG 179 Nursing Care of Children and Families (3.5)

Lecture: 2 hours / Lab: 4.5 hours

Prerequisite: REGNRSG 175 & REGNRSG 176 & REGNRSG 177

This course focuses on the nurse as a provider of care, manager of care and member of the profession involving children and families. Emphasis is placed on normal growth and development, nutrition, family dynamics, common pediatric disorders and the promotion of healthy behaviors in patients. Clinical experiences provide the student an opportunity to apply theoretical concepts and implement safe patient care to children in a variety of settings.

Student Learning Outcomes:

Utilize biopsychosocial concepts and theories, communication skills, and principles of critical thinking to apply the nursing process when caring for children and their families.

REGNRSG 180 Nursing Leadership & Management (3)

Lecture: 0.5 hour / Lab: 7.5 hours

Prerequisite: REGNRSG 178 & REGNRSG 179

This course facilitates the transition of the student to the role of a professional nurse within healthcare systems. Emphasis is placed on contemporary issues and management concepts, as well as developing the skills of delegation, conflict management, and leadership. Legal and ethical issues are discussed with a focus on personal accountability and responsibility. Standards of practice and the significance of functioning according to state regulations and statutes are analyzed. Clinical preceptorship experiences provide the student an opportunity to apply theoretical concepts while functioning as a registered nurse in his/her practice area of interest.

Student Learning Outcomes:

1. Demonstrate leadership skills in nursing.
2. Execute patient-centered care techniques in accordance with industry regulations at the entry-level registered nurse level.

ANTHRO 102

Advisory: English 101

This course provides a comparative survey of human culture, including the study of human society, language, religion, political and economic organization, with examples drawn from contemporary preliterate, peasant, and urban societies.

Student Learning Outcomes:

Students will develop comprehension and appreciation of human cultural variation and diversity.

ANTHRO 103 Archaeology: Reconstructing the Human Past (3)

Lecture: 3 hours

Advisory: ENGLISH 101

This course is an introduction to the study of concepts, theories, and methods of anthropological archaeology as well as a review of significant data and models that contribute to knowledge of the human past. The course includes a discussion of the history and interdisciplinary nature of archaeological research; dating techniques and methods of survey, excavation, and analysis; cultural resource management; and selected cultural sequences.

Student Learning Outcomes:

Plan a survey and excavation of an archaeological site.

ANTHRO 104 Human Language and Communication (3)

Lecture: 3 hours

Advisory: ENGLISH 101

As an introduction to linguistic anthropology, this course will cover the study of language, culture, and society from an anthropological perspective. Language will be presented as a form of social interaction in which participants do things with and through everyday talk. Topics include the biological basis of communication and speech, the relationship between language and culture, the structure of language, language origins, language through time, language variation, language in social context, the ethnography of communication, nonverbal communication and writing, and linguistic anthropology in the contemporary world. Special topics may include pidgins and creoles, language death and revival, and the relationship between language, identity, and power.

Student Learning Outcomes:

Analyze and describe the relationship between language and culture

ANTHRO 151 Visual Anthropology: Exploring Culture Through Film and Mixed Media (3)

Lecture: 3 hours / Lab: 0.5 hour

Advisory: ANTHRO 101 Or ANTHRO 102

Students survey and analyze the use of film and video in anthropological research, teaching, theory and methodology. Films are studied for their anthropological content and as artifacts of western culture, which reveal significant aspects of that culture. Students learn techniques in still photography and video production in the creation of a final visual product.

Student Learning Outcomes:

Survey and analyze the use of visual media and representation in anthropological research, teaching, theory, and methodology.

HISTORY 011

Advisory: ENGLISH 101

This course will examine the historical development of the United States of America from 1492 to the close of the Civil War. Emphasis is placed on the relationship of regions, the role of major ethnic and social groups, the continuity of the American experience, and its derivation from other cultures, politics, economics, social movements, and its geography.

Student Learning Outcomes:

1. Student will demonstrate ability to interpret historical primary and secondary sources to compose an argument which uses them, as appropriate, for support.
2. Student will explain major economic, technological and scientific developments and their historical significance.
3. Student will analyze and explain the historical significance of major political trends, attitudes, conflicts and effects, including both mainstream and reform efforts.

HISTROY 041

Advisory: ENGLISH 101

This course will examine the historical development of the African American from precolonial Africa through the Civil War. This course will examine the political, social, economic and intellectual development of the United States, as well as the State and local government and constitution of the U.S.

Student Learning Outcomes:

Identify and explain the influence of key individuals, major economic, technological, scientific, and/or political developments and the historical significance as related to African American History.

HISTORY 042

Advisory: ENGLISH 101

This course will examine the historical development of the United States of America from the end of the Civil War to the present with special emphasis on the contributions of the Afro-American. Emphasis is placed on the relationship of regions, both internal and external, the role of major ethnic and social groups, the continuity of the American experience, and its deviation from other cultures, politics, economics, social movements, and its geography will be examined.

Student Learning Outcomes:

Identify and explain the actors, locations, timelines, actions and / or reasons surrounding a major African American historical event from 1865 to the present.

HISTORY 043

Advisory: ENGLISH 101

Examines historical development of the United States from the period of exploration to the close of the Civil War with special emphasis on the history of Mexican-Americans. Emphasis on

HLTHOCC 043 Pathophysiology for the Medical Assistant (4)

Lecture: 4 hours

Prerequisite: BIOLOGY 36 & ENGLISH 28 & MATH 105

This course provides instruction related to common acquired diseases, congenital conditions, injuries, illnesses and traumatic situations as they relate to the major body systems. It covers related diagnostic procedures and the role of the medical assistant.

HLTHOCC 042 Medical Office Administrative Procedures I (3)

Lecture: 3 hours

Prerequisite: HLTHOCC 40 & HLTHOCC 39 & HLTHOCC 43 & HLTHOCC 46

Advisory: CAOT 001

This course provides an overview of the duties required in a medical office. It focuses on communication with patients and co-workers, completion of medical office forms, telephone techniques, filing office correspondence, mail processing, appointment scheduling, processing medical records and an introduction to medical office computer software.

HLTHOCC 041 Pharmacology for the Medical Assistant (2)

Lecture: 1.5 hours / Lab: 1.5 hours

Prerequisite: HLTHOCC 40 & HLTHOCC 39 & HLTHOCC 43 & HLTHOCC 49

This course focuses on the effects of drug therapy on human body systems. The body systems include: the central nervous, autonomic nervous, cardiovascular, renal, endocrine, respiratory and gastro-intestinal. Also included are anti-infective, anti-inflammatory, immune and biological modifiers, chemotherapeutic, hematological, dermatologic, ophthalmic and otic agents. Laboratory experience will be guided practice in medication administration.

HLTHOCC 040 Introduction to Medical Assisting (3)

Lecture: 3 hours

Prerequisite: BIOLOGY 36 & ENGLISH 28 & MATH 105

Advisory: CAOT 001

This course introduced rights, roles, responsibilities and functions of the medical assistant. It focuses on professionalism, communication skills, ethics, and legal issues in both front and back office.

Non-Credit Courses

VOC ED 451 Engine Repair (A1) ASE Preparation (0)

Lecture: 2.2 hour(s)

This Online course will give current students, Technicians, and others the chance to practice ASE-style tests without the high stakes and stress of the real thing. The practice test will be half the length of the regular ASE tests and will provide feedback in the form of a performance report with explanations for both correct and incorrect answers. This will help with their test readiness and ease anxiety before taking an actual certification test. The content will cover basic and advance information on the latest technology of today's vehicles.

Student Learning Outcome:

Navigate online resources to identify and review how to take an ASE test.
Review the principles of the Engine systems and subsystems.
Identify the common problems and recognize the false information about the components in question.

VOC ED 452 Automatic Transmission/Transaxle (A2) ASE Preparation (0)

Lecture: 2.2 hour(s)

This Online course will give current students, Technicians, and others the chance to practice ASE-style tests without the high stakes and stress of the real thing. The practice test will be half the length of the regular ASE tests and will provide feedback in the form of a performance report with explanations for both correct and incorrect answers. This will help with their test readiness and ease anxiety before taking an actual certification test. The content will cover basic and advance information on the latest technology of today's vehicles.

Student Learning Outcome:

Navigate online resources to identify and review how to take an ASE test.
Review the principles of the Automatic Transmission/Transaxle systems and subsystems.
Identify the common problems and recognize the false information about the components in question.

VOC ED 453 Manual Transmission/Transaxle (A3) ASE Preparation (0)

Lecture: 2.2 hour(s)

This Online course will give current students, Technicians, and others the chance to practice ASE-style tests without the high stakes and stress of the real thing. The practice test will be half the length of the regular ASE tests and will provide feedback in the form of a performance report with explanations for both correct and incorrect answers. This will help with their test readiness and ease anxiety before taking an actual certification test. The content will cover basic and advance information on the latest technology of today's vehicles.

Student Learning Outcome:

Navigate online resources to identify and review how to take an ASE test.
Review the principles of the Manual Transmission/Transaxle systems and subsystems.
Identify the common problems and recognize the false information about the components in question.

VOC ED 454 Steering and Suspension (A4) ASE Preparation (0)

Lecture: 2.2 hour(s)

This Online course will give current students, Technicians and others the chance to practice ASE-style tests without the high stakes and stress of the real thing. The practice test will be half the length of the regular ASE tests and will provide feedback in the form of a performance report with explanations for both correct and incorrect answers. This will help with their test readiness and ease anxiety before taking an actual certification test. The content will cover basic and advance information on the latest technology of today's vehicles.

Student Learning Outcome:

Navigate online resources to identify and review how to take an ASE test.
Review the principles of the Brake systems and subsystems. Identify the common problems and recognize the false information about the components in question.

VOC ED 455 Brakes (A5) ASE Preparation (0)

Lecture: 2.2 hour(s)

This Online course will give current students, Technicians and others the chance to practice ASE-style tests without the high stakes and stress of the real thing. The practice test will be half the length of the regular ASE tests and will provide feedback in the form of a performance report with explanations for both correct and incorrect answers. This will help with their test readiness and ease anxiety before taking an actual certification test. The content will cover basic and advance information on the latest technology of today's vehicles.

Student Learning Outcome:

Navigate online resources to identify and review how to take an ASE test.
Review the principles of the Brake systems and subsystems. Identify the common problems and recognize the false information about the components in question.

VOC ED 456 Electrical/Electronic Systems (A6) ASE Preparation (0)

Lecture: 2.2 hour(s)

This Online course will give current students, Technicians and others the chance to practice ASE-style tests without the high stakes and stress of the real thing. The practice test will be half the length of the regular ASE tests and will provide feedback in the form of a performance report with explanations for both correct and incorrect answers. This will help with their test readiness

and ease anxiety before taking an actual certification test. The content will cover basic and advance information on the latest technology of today's vehicles.

Student Learning Outcome:

Navigate online resources to identify and review how to take an ASE test.
Review the principles of the Electrical/Electronic systems and subsystems.
Identify the common problems and recognize the false information about the components in question

VOC ED 457 Heating and Air Conditioning (A7) ASE Preparation (0)

Lecture: 2.2 hour(s)

This Online course will give current students, Technicians, and others the chance to practice ASE-style tests without the high stakes and stress of the real thing. The practice test will be half the length of the regular ASE tests and will provide feedback in the form of a performance report with explanations for both correct and incorrect answers. This will help with their test readiness and ease anxiety before taking an actual certification test. The content will cover basic and advance information on the latest technology of today's vehicles.

Student Learning Outcome:

Navigate online resources to identify and review how to take an ASE test.
Review the principles of the Heating and Air Conditioning systems and subsystems.
Identify the common problems and recognize the false information about the components in question.

VOC ED 458 Engine Performance (A8) ASE Preparation (0)

Lecture: 2.2 hour(s)

This Online course will give current students, Technicians and others the chance to practice ASE-style tests without the high stakes and stress of the real thing. The practice test will be half the length of the regular ASE tests and will provide feedback in the form of a performance report with explanations for both correct and incorrect answers. This will help with their test readiness and ease anxiety before taking an actual certification test. The content will cover basic and advance information on the latest technology of today's vehicles.

Student Learning Outcome:

Navigate online resources to identify and review how to take an ASE test.
Review the principles of the Engine Performance systems and subsystems.
Identify the common problems and recognize the false information about the components in question.

VOC ED 459 Auto Maintenance and Light Repair (G1) ASE Preparation (0)

Lecture: 2.2 hour(s)

This Online course will give current students, Technicians, and others the chance to practice ASE-style tests without the high stakes and stress of the real thing. The practice test will be half the length of the regular ASE tests and will provide feedback in the form of a performance report with explanations for both correct and incorrect answers. This will help with their test readiness and ease anxiety before taking an actual certification test. The content will cover basic and advance information on the latest technology of today's vehicles.

Student Learning Outcome:

- Navigate online resources to identify and review how to take an ASE test.
- Review the principles of the Auto Maintenance and Light Repair systems and subsystems.
- Identify the common problems and recognize the false information about the components in question.

VOC ED 460 Advance Engine Performance Specialist (L1) ASE Preparation (0)

Lecture: 2.2 hour(s)

This Online course will give current students, Technicians, and others the chance to practice ASE-style tests without the high stakes and stress of the real thing. The practice test will be half the length of the regular ASE tests and will provide feedback in the form of a performance report with explanations for both correct and incorrect answers. This will help with their test readiness and ease anxiety before taking an actual certification test. The content will cover basic and advance information on the latest technology of today's vehicles.

Student Learning Outcome:

- Navigate online resources to identify and review how to take an ASE test.
- Review the principles of the Advance Engine Performance systems and subsystems.
- Identify the common problems and recognize the false information about the components in question.