

UA Cossatot Program Learning Outcomes Mapping----Skilled & Technical Programs

*Note—these programs utilize a strict attendance policy and a robust one-on-one teacher to student experience yielding positive results

Program	Program Learning Outcomes	Assessment Activity (Licensure, industry examination, certification, assignment)	Benchmark/Target	Results
Industrial Technology	Repair and maintain hydraulic and pneumatic systems	National Center for Construction and Educational Research (NCCER) Written and Performance Exams	Written / Hands on performance 70% Minimum pass	100% pass rate
	Attain knowledge of basic electrical systems	National Center for Construction and Educational Research (NCCER) Written and Performance Exams	Written / Hands on performance 70% Minimum pass	100% pass rate
	Perform basic welding repairs.	National Center for Construction and Educational Research (NCCER) Written and Performance Exams	Written / Hands on performance 70% Minimum pass	100% pass rate
	Read and interpret basic blueprints, shop drawings and electrical schematics.	National Center for Construction and Educational Research (NCCER)	Written / Hands on performance 70% Minimum pass	100% pass rate

		Written and Performance Exams		
	Install belts, sheaves/pulleys, cylinders, motors, pumps, valves, couplings, chains, sprockets, gears, gear boxes, and other components essential to industrial maintenance, repair, and installation.	National Center for Construction and Educational Research (NCCER) Written and Performance Exams	Written / Hands on performance 70% Minimum pass	100% pass rate
	Demonstrate NCCER curriculum standards	National Center for Construction and Educational Research (NCCER) Written and Performance Exams	Written / Hands on performance 70% Minimum pass	100% pass rate
Industrial Electricity	Identify National Electrical Code standards and recommended practices	National Center for Construction and Educational Research (NCCER) Written and Performance Exams	Written / Hands on performance 70% Minimum pass	100% pass rate
	Read and interpret basic blueprints, shop drawings and electrical schematics.	National Center for Construction and Educational Research (NCCER) Written and Performance Exams	Written / Hands on performance 70% Minimum pass	100% pass rate
	Perform electrical calculations to determine	National Center for Construction and	Written /	100% pass rate

	voltage, amperage, and resistance using Ohm's and Kirchhoff's Law	Educational Research (NCCER) Written and Performance Exams	Hands on performance 70% Minimum pass	
	Identify proper electrical controls used for industrial motors and equipment	National Center for Construction and Educational Research (NCCER) Written and Performance Exams	Written / Hands on performance 70% Minimum pass	100% pass rate
	Install and wire electrical components and motors including conduit bending and installation	National Center for Construction and Educational Research (NCCER) Written and Performance Exams	Written / Hands on performance 70% Minimum pass	100% pass rate
	Trouble shoot problems associated with industrial equipment utilizing Programmable Logic Controllers (PLCs)	National Center for Construction and Educational Research (NCCER) Written and Performance Exams	Written / Hands on performance 70% Minimum pass	100% pass rate
	Write and install programs to perform a variety of operations utilizing Allen Bradley PLCs and software	National Center for Construction and Educational Research (NCCER) Written and Performance Exams	Written / Hands on performance 70% Minimum pass	100% pass rate
	Demonstrate knowledge of industry and OSHA safety standards for mechanical	NATEF / ASE Written and Performance	Written and Hands on 70% pass/fail	100% pass

Diesel Technology

	safety, hazardous waste material control, handling and disposal, and proper vehicle lift safety			
	Demonstrate the proper use of diesel repair hand tools and advanced diagnostic equipment commonly used in the service and repair of diesel technology	NATEF / ASE Written / Performance	Written / Hands on Evaluation 70% Pass or Fail	100% Pass
	Accurately calculate mathematical problems common to the diesel technology industry such as, but not limited to the following: gear ratios, conversion between metric and US measurements, electrical circuits (Ohm's Law), alignment angles, voltmeter, ammeter, ohmmeter readings, and cubic inch replacement	NATEF / ASE Written / Performance	Written / Hands on performance 70% Minimum pass	100% pass
	Demonstrate proper techniques involved in completely removing, disassembling, cleaning, servicing, and re-assembling a diesel engine	NATEF / ASE Written / Performance	Written / Hands on performance 70% Minimum pass	100% pass
	Demonstrate proper technique while performing routine	NATEF / ASE Written / Performance	Written / Hands on performance 70% Minimum pass	100% pass

	inspections and preventive maintenance on diesel technology			
	Identify and assemble the parts of diesel fuel injection systems	NATEF / ASE Written / Performance	Written / Hands on performance 70% Minimum pass	100% pass
	Diagnose and repair for diesel system: <ul style="list-style-type: none"> • brake systems • drive (power) train systems • heating, ventilation and air conditioning systems • electrical and electronic systems used 	NATEF / ASE Written / Performance	Written / Hands on performance 70% Minimum pass	100% pass
Automotive Technology	Apply safe work practices in a manner compatible with OSHA requirements and ASE and NATEF standards.	NATEF / ASE Written / Performance	Written / Hands on performance 70% Minimum pass	100% pass
	Locate and employ applicable vehicle and	NATEF / ASE Written / Performance	Written / Hands on performance	92% pass

	service information from a variety of resources in order to correctly diagnose, and repair or correct malfunctions within each major automotive system		70% Minimum pass	
	Demonstrate knowledge and skills to inspect, diagnose, and repair to industry standards the major systems found in current automobiles.	NATEF / ASE Written / Performance	Written / Hands on performance 70% Minimum pass	90% pass
	Identify and explain the function of automotive parts and systems.	NATEF / ASE Written / Performance	Written / Hands on performance 70% Minimum pass	95% pass
	Identify and explain the function of and demonstrate the use of hand tools and computerized diagnostic tools used in the automotive repair industry.	NATEF / ASE Written / Performance	Written / Hands on performance 70% Minimum pass	90% pass
Cosmetology	Principals of Cosmetology— Perform hair care services for all types of hair including hair analysis, hair cutting, hairstyling, hair coloring and lightening, permanent waving and chemical relaxing, as well as, perform natural nail services including	Written exams and daily practical application. State board practical exam and written exam.	70% Practical 75% minimum Written 70% minimum	Pass rate 100% Pass rate 86%

	manicuring and pedicuring and perform basic skin care services including skin analysis, facials, makeup application and superfluous hair removal including the necessary skills to pass the Arkansas State Licensure Exam.			
	Professionalism and Business Skills— Perform salon business such as front desk operations, dispensary inventory and loss prevention, resume building and interviewing skills, self-marketing and the basic knowledge of starting one’s own salon business.	Salon business project Weekly rotation of duties	70%	100% pass rate
	Sanitation Practices— Have the knowledge of decontamination control, public hygiene and special sanitation procedures used for the protection of the client and the operator.	Written test	70%	83% pass rate
Radio	Identify trends of broadcasting and the legal issues involved	Written exams with On the Job Training (OJT)	70% performance based 30% written exams	100% pass rate
	Produce audio, write script, and write news	Written exams with On the Job Training (OJT)	70% performance based 30% written exams	100% pass

	Announce, manage, and perform all skills related to radio broadcasting needed for an entry level position	Written exams with On the Job Training (OJT)	70% performance based 30% written exams	100% pass rate
	Perform both in live studio and in the field, including; <ul style="list-style-type: none"> • Broadcasting • Interviewing • Advertising sales • Promotion • Community service 	Written exams with On the Job Training (OJT)	70% performance based 30% written exams	100% pass rate
Welding	Demonstrate welds in flat, horizontal, vertical, and overhead positions using the basic welding processes SMAW, GMAW, FCAW, and GTAW.	National Center for Construction and Educational Research (NCCER) Written and Performance Exams	Written / Hands on performance 70% Minimum pass	100% pass
	Demonstrate metal layout and cut processes.	National Center for Construction and Educational Research (NCCER) Written and Performance Exams	Written / Hands on performance 70% Minimum pass	100% pass
	Demonstrate the fundamentals of welding processes.	National Center for Construction and Educational Research (NCCER) Written and Performance Exams	Written / Hands on performance 70% Minimum pass	100% pass

	Demonstrate the principles of metallurgy during the welding process.	National Center for Construction and Educational Research (NCCER) Written and Performance Exams	Written / Hands on performance 70% Minimum pass	100% pass
	Read and interpret basic blueprints and welding symbols to fabricate components.	National Center for Construction and Educational Research (NCCER) Written and Performance Exams	Written / Hands on performance 70% Minimum pass	100% pass
	Apply basic math and measurement.	National Center for Construction and Educational Research (NCCER) Written and Performance Exams	Written / Hands on performance 70% Minimum pass	100% pass
	Follow industry and NCCER standards and safety practices.	National Center for Construction and Educational Research (NCCER) Written and Performance Exams	Written / Hands on performance 70% Minimum pass	100% pass
Pipe Welding	Pass guided bend test to AWS standards in the following: <ul style="list-style-type: none"> • SMAW carbon steel pipe (uphill and downhill) 	National Center for Construction and Educational Research (NCCER) Written and Performance Exams	Written / Hands on performance 70% Minimum pass	100% pass

	<ul style="list-style-type: none">• SMAW stainless steel pipe• GMAW carbon steel pipe• FCAW carbon steel pipe• GTAW carbon, stainless, and aluminum pipe			
--	---	--	--	--