Program Learning Outcomes Mapping – Skilled and Technical Programs – Fall 2022

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

Automotive/Diesel Service Technology				
Core Abilities	Program Learning Outcomes	Assessment Activity	Benchmark/Target	Results
Technology	Gain a thorough knowledge of industry and OSHA safety	Watch OSHA safety	Written/Hands-on	100%
Occupational Skills	standards for mechanical safety, hazardous waste material	video and take the	performance 70% pass	
Live Skills	control, handling and disposal, and proper vehicle lift	safety test	rate	
Social Values	safety.			
Technology	Demonstrate knowledge and skills to inspect, diagnose, and	Carefully inspect and	Written/Hands-on	90%
Occupational Skills	repair to industry standards the major systems found in	align suspension parts	performance 70% pass	
	current auto and diesel vehicles.	of auto and diesels	rate	
Communication	Identify and explain the function of automotive and diesel	Parts ID Checklist	Written/Hands-on	100%
Occupational Skills	parts and systems.		performance 70% pass	
			rate	
Occupational Skills	Demonstrate proper technique while performing routine	Inspection Checklist	Written/Hands-on	90%
	inspections and preventive maintenance on diesel		performance 70% pass	
	technology.		rate	
Technology	Demonstrate proper techniques involved in completely	Hands on activity of	Written/Hands-on	90%
Occupational Skills	removing, disassembling, cleaning, servicing, and re-	disassembling an	performance 70% pass	
Communication	assembling an automotive and diesel engine.	engine and putting it	rate	
		back together		
Technology	Determine the proper use of hand tools and	Using the diagnostic	Written/Hands-on	100%
Occupational Skills	advanced diagnostic equipment commonly used in the	scan tool to accurately	performance 70% pass	
	service and repair of automotive and diesel technology.	diagnose an engine	rate	
		problem		
Life Skills	Accurately calculate mathematical problems common to	Test	Written/Hands-on	100%
Occupational Skills	the automotive and diesel technology industry such as, but		performance 70% pass	
	not limited to the following: gear ratios, conversion		rate	
	between metric and US measurements, electrical circuits			
	(Ohm's Law), alignment angles, voltmeter, ammeter,			
	ohmmeter readings, and cubic inch replacement.			

	Cosmeto	logy		
Core Abilities	Program Learning Outcomes	Assessment Activity	Benchmark/Target	Results
	Perform haircare services for all types of hair including hair analysis, haircutting, hairstyling, hair coloring and	State Board practical and written exam	Practical Exam – 75%	89%
	lightening, permanent waving, and chemical relaxing;		Written Exam – 70%	
Occupational Skills	perform natural nail services including manicuring and			
Social Values	pedicuring; perform basic skincare services including skin			
	analysis, facials, makeup application, and superfluous hair			
	removal; obtain the necessary skills to pass the Arkansas			
	State Licensure Exam (Principles of Cosmetology).			
Communication	Perform salon business, such as front desk operations,	Salon Business Project	Students will score 70%	*The activity is not
Occupational Skills	dispensary inventory and loss prevention, resume building		proficiency at the	assessed in the fall.
Technology	and interviewing skills, self-marketing, and the basic		Adequate Level on	
Life Skills	knowledge of starting one's own salon business		each assignment	
	(Professionalism and Business Skills).			
Life Skills	Have thorough knowledge of decontamination control,	Infectious Control	Students will score 70%	80%
Occupational Skills	public hygiene, and special sanitation procedures used for		proficiency at the	
	the protection of the client and operator (Sanitation		Adequate Level on	
	Practices).		each assignment	
	Industrial Ele	ectricity		
Core Abilities	Program Learning Outcomes	Assessment Activity	Benchmark/Target	Results
Occupational Skills	Identify the National Electrical Code standards and	Symbols Identification	Written/Hands-on	100%
	recommended practices	Lab	performance 70% pass	
			rate	
Occupational Skills	Read and interpret basic blueprints, shop drawings, and	Industrial	Written/Hands-on	100%
Life Skills	electrical schematics.	Fundamentals Lab	performance 70% pass	
			rate	
Occupational Skills	Perform electrical calculations to determine voltage,	Basic Electricity Lab	Written/Hands-on	80%
Communication	amperage, and resistance using Ohm's and Kirchhoff's Law.		performance 70% pass	
			rate	
Occupational Skills	Identify proper electrical controls used for industrial motors	Motors and Controls	Written/Hands-on	100%
	and equipment.	Lab	performance 70% pass	
			rate	

Occupational Skills	Install and wire electrical components and motors including conduit bending and installation.	Motors and Controls Labs	Written/Hands-on performance 70% pass rate	100%
Occupational Skills Technology	Troubleshoot problems associated with industrial equipment utilizing Programmable Logic Controllers (PLCs).	PLC Lab	Written/Hands-on performance 70% pass rate	100%
Occupational Skills Technology	Write and install programs to perform a variety of operations utilizing Allen Bradley PLCs and software.	PLC lab	Written/Hands-on performance 70% pass rate	100%
	Industrial Teo	chnology		
Core Abilities	Program Learning Outcomes	Assessment Activity	Benchmark/Target	Results
Occupational Skills Technology	Repair and maintain hydraulic and pneumatic systems.	Assemble hydraulic motor and describe parts	Written/Hands-on performance 70% pass rate	94%
Occupational Skills Communication	Attain knowledge of basic electrical systems.	Unit 8 test – Basic Electricity Combination Circuits	Written/Hands-on performance 70% pass rate	87%
		Basic Electricity Lab		80%
Occupational Skills Technology Communication Life Skills	Perform basic welding repairs.	Cut and weld a bevel plate	Written/Hands-on performance 70% pass rate	100%
Occupational Skills Communication Life Skills	Read and interpret basic blueprints, shop drawings, and electrical schematics.	Module 5 in Core Curriculum book Intro to Construction Drawings test	Written/Hands-on performance 70% pass rate	90%
		Industrial Fundamentals Lab		
Occupational Skills Life Skills	Install belts, sheaves/pulleys, cylinders, motors, pumps, valves, couplings, chains, sprockets, gears, gearboxes, and	Install a 3 belt & pulleys system and	Written/Hands-on performance 70% pass rate	92%

	other components essential to industrial maintenance	align on Lad Volt		
	repair and installation.	Mechanical trainer		
Communication	Demonstrate NCCER curriculum standards.	Pass all NCCER written	Written/Hands-on	100%
Occupational Skills		and performance tests	performance 70% pass	
Life Skills		to receive card	rate	
Social Values				
	Pipe Wel	lding		
Core Abilities	Program Learning Outcomes	Assessment Activity	Benchmark/Target	Results
Communication	Pass guided bend test to AWS standards in the following:	National Center for	Written/Hands-on	100%
Occupational Skills	 SMAW carbon steel pipe (uphill and downhill) 	Construction and	performance 70% pass	
Technology	 SMAW stainless steel pipe 	Educational Research	rate	
	GMAW carbon steel pipe	(NCCER)		
	FCAW carbon steel pipe	Written and		
	 GTAW carbon, stainless, and aluminum pipe 	Performance Exams		
	Weldi	ng		
Core Abilities	Program Learning Outcomes	Assessment Activity	Benchmark/Target	Results
Occupational Skills	Demonstrate welds in flat, horizontal, vertical, and	Performance	Written/Hands-on	100%
Technology	overhead positions using the basic welding processes:	Accreditation Task	performance 70% pass	
	SMAW, GMAW, FCAW, and GTAW.		rate	
Occupational Skills	Demonstrate metal layout and cut processes.	Welding #1 – Module 2	Written/Hands-on	100%
			performance 70% pass	
			rate	
Occupational Skills	Demonstrate the fundamentals of welding processes.	Welding #1 – Module 7	rate Written/Hands-on	100%
Occupational Skills	Demonstrate the fundamentals of welding processes.	Welding #1 – Module 7	rate	100%
•			rate Written/Hands-on performance 70% pass rate	
•	Demonstrate the principles of metallurgy during the	Welding #1 – Module 7 Welding #2 – Module 3	rate Written/Hands-on performance 70% pass rate Written/Hands-on	100% 90%
- -			rate Written/Hands-on performance 70% pass rate Written/Hands-on performance 70% pass	
Occupational Skills	Demonstrate the principles of metallurgy during the welding process.	Welding #2 – Module 3	rate Written/Hands-on performance 70% pass rate Written/Hands-on performance 70% pass rate	90%
Occupational Skills Technology	Demonstrate the principles of metallurgy during the welding process. Read and interpret basic blueprints and welding symbols to		rate Written/Hands-on performance 70% pass rate Written/Hands-on performance 70% pass rate Written/Hands-on	
Occupational Skills	Demonstrate the principles of metallurgy during the welding process.	Welding #2 – Module 3	rate Written/Hands-on performance 70% pass rate Written/Hands-on performance 70% pass rate	90%

Technology	Apply basic math and measurement.	Welding #1 – Module 2	Written/Hands-on	100%
Occupational Skills			performance 70% pass	
Life Skills			rate	
Technology	Follow industry and NCCER standards and safety practices.	Welding #1 – Module 1	Written/Hands-on	100%
Occupational Skills			performance 70% pass	
Communication			rate	
Social Values				