Curriculum Map
AUT 152-153
Maintenance and Light Repair Section B

School:	**Central ATC**	**Program:**	**Automotive Technology**
Teacher:	**William Bennett**	**School Year:**	**201__-201__**
KCTCS Course Number:	**ADX 120-121**	**KY Tech Course Name**	**Maintenance and Light Repair Section B**
Length of Course:	**Year long**	**Length of Period**	**50 Minutes** Period 3 w/4
High School Credit(s)	**1**		

Automotive Maintenance and Light Repair Section B:

Required Supplemental Tasks

Date Completed	Days	Task	Description	Common Core/Skills Standards
8-16-2017	1-5	1	Identify general shop safety rules and procedures.	Skills Standards: EB 001 EB 002 EB 003 EB 004 EB 005 EB 006 EB 007 Common Core Technical Standards: TD-HSE-1 TD-HSE-2 New Common Core Standards: RST 11-12 3
8-18-2017	6-10	2	Utilize safe procedures for handling of tools and equipment. PowerPoint from Text Vendor for this content	Skills Standards: OC 002 OC 003 OC 010 OC 011 Common Core Technical Standards: TD-HSE-1 New Common Core Standards: RST 11-12 3
8-30-2017	11-12	3	Identify and use proper placement of floor jacks and jack stands.	Skills Standards: OC 002 OC 003 OC 010 OC 011

				Common Core Technical Standards: TD-HSE-1 New Common Core Standards: RST 11-12 3 New Generation Science Standards: HS-PS2-1. HS-PS3-3.
8-25-2014	13-14	4	Identify and use proper procedures for safe lift operation.	Skills Standards: OC 002 OC 003 OC 010 OC 011 Common Core Technical Standards: TD-HSE-1 New Common Core Standards: RST 11-12 3
8-27-2014	14-15	5	Utilize proper ventilation procedures for working within the lab/shop area.	Skills Standards: OC 002 OC 003 OC 010 OC 011 Common Core Technical Standards: TD-HSE-1 New Common Core Standards: RST 11-12 3
8-27-2014	15	6	Identify marked safety areas.	Skills Standards: OC 018 OC 023 Common Core Technical Standards: TD-HSE-1 TD-HSE-2 New Common Core Standards: RST 11-12 3

9-11-201-	16-18	7	Identify the location and the types of fire extinguishers and other fire safety equipment; demonstrate knowledge of the procedures for using fire extinguishers and other fire safety equipment. PowerPoint from Text Vendor for this content	Skills Standards: OC 018 OC 023 Common Core Technical Standards: TD-HSE-1 TD-HSE-2 New Common Core Standards: RST 11-12 3
9-14-201-	19	8	Identify the location and use of eye wash stations.	Skills Standards: OC 002 OC 003 OC 010 OC 011 Common Core Technical Standards: TD-HSE-1 TD-HSE-2 New Common Core Standards: RST 11-12 3
9-14-201-	19	9	Identify the location of the posted evacuation routes.	Skills Standards: OC 018 OC 023 Common Core Technical Standards: TD-HSE-1 TD-HSE-2 New Common Core Standards: RST 11-12 3
9-17-201-	20-21	10	Comply with the required use of safety glasses, ear protection, gloves, and shoes during lab/shop activities.	Skills Standards: OC 002 OC 003 OC 010 OC 011 Common Core Technical Standards: TD-HSE-1 TD-HSE-2 New Common Core Standards:

				RST 11-12 3
9-22-2011	22-24	11	Identify and wear appropriate clothing for lab/shop activities. PowerPoint Assignment	Skills Standards: OC 002 OC 003 OC 010 OC 011 Common Core Technical Standards: TD-HSE-1 TD-HSE-2 New Common Core Standards: RST 11-12 3
9-24-2011	22-24	12	Secure hair and jewelry for lab/shop activities.	Skills Standards: OC 010 OC 011 Common Core Technical Standards: TD-HSE-1 TD-HSE-2
9-28-2011	25-26	13	Demonstrate awareness of the safety aspects of supplemental restraint systems (SRS), electronic brake control systems, and hybrid vehicle high voltage circuits.	Skills Standards: OC 002 OC 003 OC 010 OC 011 Common Core Technical Standards: TD-HSE-1 TD-HSE-2 New Common Core Standards: RST 11-12 3 New Generation Science Standards: HS-PS3-5.
9-30-2011	26-27	14	Demonstrate awareness of the safety aspects of high voltage circuits (such as high intensity discharge (HID) lamps, ignition systems, injection systems, etc.).	Skills Standards: OC 002 OC 003 OC 010 OC 011 Common Core Technical Standards:

				TD-HSE-1 TD-HSE-2 New Common Core Standards: RST 11-12 3 New Generation Science Standards: HS-PS3-5.
10-7-201_	28	15	Locate and demonstrate knowledge of material safety data sheets (MSDS).	Skills Standards: OC 002 OC 003 OC 010 OC 011 Common Core Technical Standards: TD-HSE-1 TD-HSE-2 New Common Core Standards: RST 11-12 3
10-8-201_				
10-15-201_	29-32	16	Identify tools and their usage in automotive applications. PowerPoint from Text Vendor for this content	Skills Standards: OC 002 OC 003 OC 010 OC 011 Common Core Technical Standards: TD-HSE-1 TD-HSE-2 New Common Core Standards: RST 11-12 3
	33	17	Identify standard and metric designation.	Skills Standards: OB 002 OB 003 OB 004 Common Core Technical Standards: TD-HSE-1

				TD-HSE-2 New Common Core Standards: RST 11-12 3 N-Q.1 A-CED-4
	34-36	18	Demonstrate safe handling and use of appropriate tools.	Skills Standards: OC 002 OC 003 OC 010 OC 011 Common Core Technical Standards: TD-HSE-1 TD-HSE-2 New Common Core Standards: RST 11-12 3
	37-40	19	Demonstrate proper cleaning, storage, and maintenance of tools and equipment.	Skills Standards: OC 010 OC 011 Common Core Technical Standards: TD-HSE-1 TD-HSE-2 New Common Core Standards: RST 11-12 3
	41-42	20	Demonstrate proper use of precision measuring tools (i.e. micrometer, dial-indicator, dial-caliper).	Skills Standards: OB 002 OB 003 OB 004 Common Core Technical Standards: TD-HSE-1 TD-HSE-2 New Common Core Standards: RST 11-12 3

				N-Q.1
	43-44	21	Identify information needed and the service requested on a repair order.	Skills Standards: OD 001 OD 002 OD 003 OD 004 OD 005 Common Core Technical Standards: TD-SYS-2 New Common Core Standards: RST 11-12.2
	44	22	Identify purpose and demonstrate proper use of fender covers, mats.	Skills Standards: OC 002 OC 003 OC 010 OC 011 Common Core Technical Standards: TD-OPS.3 New Common Core Standards: RST 11-12 3
	45	23	Demonstrate use of the three C's (concern, cause, and correction).	Skills Standards: OD 001 OD 002 OD 003 OD 004 OD 005 Common Core Technical Standards: TD-SYS-2 New Common Core Standards: RST 11-12.2
	45-46	24	Review vehicle service history.	Skills Standards: OD 001 OD 002 OD 003 OD 004

				OD 005 Common Core Technical Standards: TD-SYS-2 New Common Core Standards: RST 11-12.2
	47-49	25	Complete work order to include customer information, vehicle identifying information, customer concern, related service history, cause, and correction. Student use a spreadsheet	Skills Standards: OD 001 OD 002 OD 003 OD 004 OD 005 Common Core Technical Standards: TD-SYS-2 New Common Core Standards: RST 11-12.2
	50-51	26	Ensure vehicle is prepared to return to customer per school/company policy (floor mats, steering wheel cover, etc.).	Skills Standards: OC 002 OC 003 OC 010 OC 011 Common Core Technical Standards: TD-OPS.3 New Common Core Standards: RST 11-12 3

			SUSPENSION AND STEERING	
			Related Suspension and Steering Service	
	52-54	28	Inspect rack and pinion steering gear inner tie rod ends (sockets) and bellows boots. Use Identifix	Skills Standards: OH 001 OH 002 OH 003 OD 002 OD 003 OD 005 Common Core Technical Standards: TD-OPS.2

				TD-SYS.2 New Common Core State Standards: RST 11-12 3 N-Q-3
	55	29	Determine proper power steering fluid type; inspect fluid level and condition. Use Today's Classroom	Skills Standards: OH 001 OH 002 OH 003 OD 002 OD 003 OD 005 Common Core Technical Standards: TD-OPS.2 TD-SYS.2 New Common Core State Standards: RST 11-12 3 N-Q-3 New Generation Science Standards: HS-PS2-1. HS-PS3-3.
	56-57	30	Flush, fill, and bleed power steering system.	Skills Standards: OH 001 OH 002 OH 003 OD 002 OD 003 OD 005

				Common Core Technical Standards: TD-OPS.2 TD-SYS.2 New Common Core State Standards: RST 11-12 3 N-Q-3
	58-59	31	Inspect for power steering fluid leakage; determine necessary action.	Skills Standards: OH 001 OH 002 OH 003 OD 002 OD 003 OD 005 Common Core Technical Standards: TD-OPS.2 TD-SYS.2 New Common Core State Standards: RST 11-12 3 N-Q-3
	60-62	32	Remove, inspect, replace, and adjust power steering pump drive belt.	Skills Standards: OH 001 OH 002 OH 003 OD 002 OD 003 OD 005 Common Core Technical Standards: TD-OPS.2 TD-SYS.2 New Common Core State Standards: RST 11-12 3 N-Q-3
	63-64	33	Inspect and replace power steering hoses and fittings.	Skills Standards: OH 001 OH 002 OH 003 OD 002 OD 003

				OD 005 Common Core Technical Standards: TD-OPS.2 TD-SYS.2 New Common Core State Standards: RST 11-12 3 N-Q-3
	65-66	34	Replace power steering pump filter(s).	Skills Standards: OH 001 OH 002 OH 003 OD 002 OD 003 OD 005 Common Core Technical Standards: TD-OPS.2 TD-SYS.2 New Common Core State Standards: RST 11-12 3 N-Q-3
	67-70	35	Inspect pitman arm, relay (centerlink/intermediate) rod, idler arm and mountings, and steering linkage damper. Use Today's Classroom	Skills Standards: OH 001 OH 002 OH 003 OD 002 OD 003 OD 005 Common Core Technical Standards: TD-OPS.2 TD-SYS.2 New Common Core State Standards: RST 11-12 3 N-Q-3 New Generation Science Standards: HS-PS2-1. HS-PS3-3.

	71-72	36	Inspect tie rod ends (sockets), tie rod sleeves, and clamps.	Skills Standards: OH 001 OH 002 OH 003 OD 002 OD 003 OD 005 Common Core Technical Standards: TD-OPS.2 TD-SYS.2 New Common Core State Standards: RST 11-12 3 N-Q-3
	73-74	37	Inspect upper and lower control arms, bushings, and shafts.	Skills Standards: OH 001 OH 002 OH 003 OD 002 OD 003 OD 005 Common Core Technical Standards: TD-OPS.2 TD-SYS.2 New Common Core State Standards: RST 11-12 3 N-Q-3
	75-79	38	Inspect and replace rebound and jounce bumpers.	Skills Standards: OH 001 OH 002 OH 003 OD 002 OD 003 OD 005 Common Core Technical Standards: TD-OPS.2 TD-SYS.2 New Common Core State Standards: RST 11-12 3 N-Q-3

	80-81	39	Inspect track bar, strut rods/radius arms, and related mounts and bushings. Use Identifix	Skills Standards: OH 001 OH 002 OH 003 OD 002 OD 003 OD 005 Common Core Technical Standards: TD-OPS.2 TD-SYS.2 New Common Core State Standards: RST 11-12 3 N-Q-3
	82-84	40	Inspect upper and lower ball joints (with or without wear indicators).	Skills Standards: OH 001 OH 002 OH 003 OD 002 OD 003 OD 005 Common Core Technical Standards: TD-OPS.2 TD-SYS.2 New Common Core State Standards: RST 11-12 3 N-Q-3
	85-87	41	Inspect suspension system coil springs and spring insulators (silencers).	Skills Standards: OH 001 OH 002 OH 003 OD 002 OD 003 OD 005 Common Core Technical Standards: TD-OPS.2 TD-SYS.2 New Common Core State Standards:

				RST 11-12 3 N-Q-3
	88-90	42	Inspect suspension system torsion bars and mounts.	Skills Standards: OH 001 OH 002 OH 003 OD 002 OD 003 OD 005 Common Core Technical Standards: TD-OPS.2 TD-SYS.2 New Common Core State Standards: RST 11-12 3 N-Q-3
	91-95	43	Inspect and replace front stabilizer bar (sway bar) bushings, brackets, and links.	Skills Standards: OH 001 OH 002 OH 003 OD 002 OD 003 OD 005 Common Core Technical Standards: TD-OPS.2 TD-SYS.2 New Common Core State Standards: RST 11-12 3 N-Q-3
	96-97	44	Inspect strut cartridge or assembly.	Skills Standards: OH 001 OH 002 OH 003 OD 002 OD 003 OD 005 Common Core Technical Standards:

				TD-OPS.2 TD-SYS.2 New Common Core State Standards: RST 11-12 3 N-Q-3
	98-99	45	Inspect front strut bearing and mount.	Skills Standards: OH 001 OH 002 OH 003 OD 002 OD 003 OD 005 Common Core Technical Standards: TD-OPS.2 TD-SYS.2 New Common Core State Standards: RST 11-12 3 N-Q-3
	101-103	46	Inspect rear suspension system lateral links/arms (track bars), control (trailing) arms.	Skills Standards: OH 001 OH 002 OH 003 OD 002 OD 003 OD 005 Common Core Technical Standards: TD-OPS.2 TD-SYS.2 New Common Core State Standards: RST 11-12 3 N-Q-3
	104-106	47	Inspect rear suspension system leaf spring(s), spring insulators (silencers), shackles, brackets, bushings, center pins/bolts, and mounts.	Skills Standards: OH 001 OH 002 OH 003 OD 002 OD 003

				OD 005 Common Core Technical Standards: TD-OPS.2 TD-SYS.2 New Common Core State Standards: RST 11-12 3 N-Q-3
	107-110	48	Inspect, remove, and replace shock absorbers; inspect mounts and bushings. Use Identifx .	Skills Standards: OH 001 OH 002 OH 003 OD 002 OD 003 OD 005 Common Core Technical Standards: TD-OPS.2 TD-SYS.2 New Common Core State Standards: RST 11-12 3 N-Q-3
	111-112	49	Inspect electric power-assisted steering.	Skills Standards: OH 001 OH 002 OH 003 OD 002 OD 003 OD 005 Common Core Technical Standards: TD-OPS.2 TD-SYS.2 New Common Core State Standards: RST 11-12 3 N-Q-3 New Generation Science Standards: HS-PS3-5.

	113-115	50	Identify hybrid vehicle power steering system electrical circuits and safety precautions. PowerPoint from Text Vendor for this content	Skills Standards: OH 001 OH 002 OH 003 OD 002 OD 003 OD 005 Common Core Technical Standards: TD-OPS.2 TD-SYS.2 New Common Core State Standards: RST 11-12 3 N-Q-3 N-Q-1 New Generation Science Standards: HS-PS3-5.
	116-117	51	Describe the function of the power steering pressure switch.	Skills Standards: OH 001 OH 002 OH 003 OD 002 OD 003 OD 005

				Common Core Technical Standards: TD-OPS.2 TD-SYS.2 New Common Core State Standards: RST 11-12 3 N-Q-3
			Wheel Alignment	
	118-122	52	Perform prealignment inspection and measure vehicle ride height; determine necessary action.	Skills Standards: OH 001 OH 002 OH 003 OD 002 OD 003 OD 005 Common Core Technical Standards: TD-OPS.2 TD-SYS.2 New Common Core State Standards: RST 11-12 3 N-Q-3 N-Q-1
			Wheels and Tires	
	123-125	53	Inspect tire condition; identify tire wear patterns; check	Skills Standards: OH 001

			for correct size and application (load and speed ratings) and adjust air pressure; determine necessary action. PowerPoint from Text Vendor for this content	OH 002 OH 003 OD 002 OD 003 OD 005 Common Core Technical Standards: TD-OPS.2 TD-SYS.2 New Common Core State Standards: RST 11-12 3 N-Q-3 N-Q-1
	126-127	54	Rotate tires according to manufacturer's recommendations.	Skills Standards: OH 001 OH 002 OH 003 OD 002 OD 003 OD 005 Common Core Technical Standards: TD-OPS.2 TD-SYS.2 New Common Core State Standards: RST 11-12 3 N-Q-3 N-Q-1
	128-132	55	Dismount, inspect, and remount tire on wheel; balance wheel and tire assembly (static and dynamic).	Skills Standards: OH 001 OH 002

				OH 003 OD 002 OD 003 OD 005 Common Core Technical Standards: TD-OPS.2 TD-SYS.2 New Common Core State Standards: RST 11-12 3 RST 11-12 2 N-Q-3 N-Q-1
	133-137	56	Dismount, inspect, and remount tire on wheel equipped with tire pressure monitoring system sensor	Skills Standards: OH 001 OH 002 OH 003 OD 002 OD 003 OD 005 Common Core Technical Standards: TD-OPS.2 TD-SYS.2 New Common Core State Standards: RST 11-12 3 RST 11-12 2 N-Q-3 N-Q-1

	138-139	57	Inspect tire and wheel assembly for air loss; perform necessary action.	Skills Standards: OH 001 OH 002 OH 003 OD 002 OD 003 OD 005 Common Core Technical Standards: TD-OPS.2 TD-SYS.2 New Common Core State Standards: RST 11-12 3 RST 11-12 2 N-Q-3 N-Q-1
	140-141	58	Repair tire using internal patch.	Skills Standards: OH 001 OH 002 OH 003 OD 002 OD 003 OD 005 Common Core Technical Standards: TD-OPS.2 TD-SYS.2 New Common Core State Standards: RST 11-12 3

				RST 11-12 2 N-Q-3 N-Q-1
	142-143	59	Identify and test tire pressure monitoring systems (indirect and direct) for operation; verify operation of instrument panel lamps.	Skills Standards: OH 001 OH 002 OH 003 OD 002 OD 003 OD 005 Common Core Technical Standards: TD-OPS.2 TD-SYS.2 New Common Core State Standards: RST 11-12 3 RST 11-12 2 N-Q-3 N-Q-1 New Generation Science Standards: HS-PS3-5.
	144-145	60	Demonstrate knowledge of steps required to remove and replace sensors in a tire pressure monitoring system.	Skills Standards: OH 001 OH 002 OH 003 OD 002 OD 003

				OD 005 Common Core Technical Standards: TD-OPS.2 TD-SYS.2 New Common Core State Standards: RST 11-12 3 RST 11-12 2 N-Q-3 N-Q-1
			BRAKES	
			General	
	146-148	61	Research applicable vehicle and service information, vehicle service history, service precautions, and technical service bulletins.	Skills Standards: AB 1 AB 2 AB 3 AB 4 Common Core Technical Standards: TD-SYS-2 New Common Core Standards: RST 11-12.2
	149-150	62	Describe procedure for performing a road test to check brake system operation, including an anti-lock brake system (ABS).	Skills Standards: OH 001 OH 002 OH 003

			Student internet writing assignment	OD 002 OD 003 OD 005 Common Core Technical Standards: TD-OPS.2 TD-SYS.2 New Common Core State Standards: RST 11-12 3 RST 11-12 2 N-Q-3 N-Q-1 New Generation Science Standards: HS-PS2-1. HS-PS3-3.
	151-152	63	Install Wheel and Torque Lug Nuts	Skills Standards: OH 001 OH 002 OH 003 OD 002 OD 003 OD 005 Common Core Technical Standards: TD-OPS.2 TD-SYS.2 New Common Core State Standards: RST 11-12 3 RST 11-12 2 N-Q-3 N-Q-1
			Hydraulic System	

	153-155	64	Measure brake pedal height, travel, and free play (as applicable); determine necessary action. PowerPoint from Text Vendor for this content	Skills Standards: OH 001 OH 002 OH 003 OD 002 OD 003 OD 005 Common Core Technical Standards: TD-OPS.2 TD-SYS.2 New Common Core State Standards: RST 11-12 3 RST 11-12 2 N-Q-3 N-Q-1
	156-157	65	Check master cylinder for external leaks and proper operation.	Skills Standards: OH 001 OH 002 OH 003 OD 002 OD 003 OD 005 Common Core Technical Standards: TD-OPS.2 TD-SYS.2 New Common Core State Standards: RST 11-12 3 RST 11-12 2 N-Q-3 N-Q-1 New Generation Science Standards: HS-PS2-1. HS-PS3-3.

	158-162	66	Inspect brake lines, flexible hoses, and fittings for leaks, dents, kinks, rust, cracks, bulging, wear, loose fittings and supports; determine necessary action. Use Identifix	Skills Standards: OH 001 OH 002 OH 003 OD 002 OD 003 OD 005 Common Core Technical Standards: TD-OPS.2 TD-SYS.2 New Common Core State Standards: RST 11-12 3 RST 11-12 2 N-Q-3 N-Q-1 New Generation Science Standards: HS-PS2-1. HS-PS3-3.
	163	67	Select, handle, store, and fill brake fluids to proper level.	Skills Standards: OH 001 OH 002 OH 003 OD 002 OD 003 OD 005 Common Core Technical Standards: TD-OPS.2 TD-SYS.2 New Common Core State Standards: RST 11-12 3 RST 11-12 2 N-Q-3

	164-165	68	Identify components of brake warning light system.	Skills Standards: OH 001 OH 002 OH 003 OD 002 OD 003 OD 005 Common Core Technical Standards: TD-OPS.2 TD-SYS.2 New Common Core State Standards: RST 11-12 3 RST 11-12 2
	166-167	69	Bleed and/or flush brake system.	Skills Standards: OH 001 OH 002 OH 003 OD 002 OD 003 OD 005 Common Core Technical Standards: TD-OPS.2 TD-SYS.2 New Common Core State Standards: RST 11-12 3 RST 11-12 2 N-Q-3 New Generation Science Standards: HS-PS2-1. HS-PS3-3.
	167	70	Test brake fluid for contamination.	Skills Standards: OH 001 OH 002 OH 003 OD 002

				OD 003 OD 005 Common Core Technical Standards: TD-OPS.2 TD-SYS.2 New Common Core State Standards: RST 11-12 3 RST 11-12 2
			EMPLOYABILITY SKILLS	
			Reports to work daily on time; able to take directions and motivated to accomplish the task at hand. PowerPoint student assignment	Skill Standards: EF 001 EF 005 EF 010
			Dresses appropriately and uses language and manners suitable for the workplace.	Skills Standards: EF 003 EF 004
			Maintains appropriate personal hygiene	Skills Standards: EF 003 EF 004
			Meets and maintains employment eligibility criteria, such as drug/alcohol-free status, clean driving record, etc.	Skills Standards: EE 003 EB 003 EF 019
			Demonstrates honesty, integrity and reliability	Skills Standards: ED 001 ED 004 EF 001

			Complies with workplace policies/laws	Skill Standards: EF 010 EB 001 EF 018
			Contributes to the success of the team, assists others and requests help when needed.	Skills Standards: EA 005 EA 011 EC 002
			Works well with all customers and coworkers.	Skills Standards: EE 001 EF 019 EF 016
			Negotiates solutions to interpersonal and workplace conflicts.	Skills Standards: EC 001 EC 002 EC 003 EA 013
			Contributes ideas and initiative	Skills Standards: EC 002 EC 003
			Follows directions	Skills Standards: EF 010 EF 012 EF 013
			Communicates (written and verbal) effectively with customers and coworkers.	Skills Standards: EA 008 EA 006 EA 013

				EA 007
			Reads and interprets workplace documents; writes clearly and concisely.	Skills Standards: EA 003 EA 001 EA 006
			Analyzes and resolves problems that arise in completing assigned tasks.	Skills Standards: EC 001 EC 002 EC 003
			Organizes and implements a productive plan of work.	Skills Standards: ED 001 ED 002 OD 003 OD 004 OD 005
			Uses scientific, technical, engineering and mathematics principles and reasoning to accomplish assigned tasks	Skills Standards: OB 001 OB 002 OB 003 OB 004
			Identifies and address the needs of all customers, providing helpful, courteous and knowledgeable service and advice as needed.	Skills Standards: ED 001 ED 002 ED 003 ED 005 ED 006