

FLORIDA STATE COLLEGE AT JACKSONVILLE  
COLLEGE CREDIT COURSE OUTLINE

COURSE NUMBER:	AER 2881
COURSE TITLE:	Automotive MLR Internship II
PREREQUISITE (S):	None
CO REQUISITE (S):	None
CREDIT HOURS:	2
CONTACT HOURS/WEEK:	20
CONTACT HOUR BREAKDOWN:	
Lecture/Discussion:	
Laboratory:	
Other ___internship___:	20
FACULTY WORKLOAD POINTS:	Calculated on the # of students in the internship
STANDARDIZED CLASS SIZE ALLOCATION:	OPEN
COURSE DESCRIPTION:	
<p>In order to meet the State of Florida Department of Education (DOE) and National Automotive Technician Education Foundation (NATEF) standards, interns must complete a minimum of 320 hours on-the-job learning experience addressing the standards designated in each course of instruction. While working under the mentorship of an experienced technician, students must document the required hours referenced to the standards in each module.</p>	
SUGGESTED TEXT(S):	NATEF Standards
IMPLEMENTATION DATE:	Fall Term, 2002 (20031)
REVIEW OR MODIFICATION DATE:	Fall Term, 2005 (20061) Fall Term, 2008 (20091)

MODULE OUTLINE

SECOND YEAR AUTOMOTIVE INTERNSHIP

Internship Based Objectives:

Student will complete the internship evaluation NATEF Task list associated with each module completed during the second year of this program of study.

Program Title: Automotive Service Management Technology  
 Course Title: Second Year Automotive Internship  
 CIP Number: 1615080300/0615080300

LIST PERFORMANCE STANDARD ADDRESSED:

NUMBER(S): TITLES(S):

NATEF and Florida DOE Standards are specifically identified under each module title.

DURING THE INTERNSHIP PORTION OF THIS PROGRAM THE STUDENT WILL DEMONSTRATE PROFICIENCY IN THE OPERATION AND SERVICING OF AUTOMOTIVE -- SECOND YEAR INTERN -- The student will be evaluated on the following practical skills standards:

ENGINE PERFORMANCE

- 16.01 Interpret and verify complaint; determine needed repairs. P-1
- 16.02 Demonstrate proficiency in use of computer-based information systems.
- 16.03 Inspect engine assembly for fuel, oil, coolant, and other leaks; determine needed repairs. P-2
- 16.04 Diagnose unusual engine noise or vibration problems; determine needed repairs. P-2
- 16.05 Diagnose unusual exhaust color, odor, and sound; determine needed action. P-2
- 16.06 Perform engine absolute (vacuum/boost) manifold pressure tests; determine needed repairs. P-1
- 16.07 Perform cylinder power balance test; determine needed action. P-1
- 16.08 Perform cylinder compression test; determine needed action. P-1
- 16.09 Perform cylinder leakage test; determine needed action. P-1
- 16.50 Inspect exhaust manifold, exhaust pipes, mufflers, resonators, tail pipes, and heat shields; repair or replace as needed. P-2
- 16.51 Perform exhaust system back-pressure test; determine needed action.
- 16.52 Test the operation of turbocharger/supercharger systems; determine needed action. P-3
- 16.53 Remove, clean, inspect, and repair or replace turbocharger /supercharger system components. P-3
- 16.54 Identify the causes of turbocharger/supercharger failure; determine needed action. P-3
  
- 16.25 Diagnose no-starting, drivability, and emissions problems on vehicles with electronic ignition (distributorless) systems; determine needed repairs. P-1
- 16.26 Diagnose no-starting, drivability, and emissions problems on vehicles with distributor ignition (DI) systems; determine needed repairs. P-1
- 16.27 Inspect and test ignition primary circuit wiring and components; repair or replace as needed. P-2
  
- 16.28 Inspect and test ignition system secondary circuit wiring and components; replace as needed. P-2
- 16.29 Inspect and test ignition coil(s); replace as needed. P-2
- 16.30 Check and adjust (where applicable) ignition system timing and timing advance/retard. P-1
- 16.31 Inspect and test ignition wiring harness and connectors; replace as needed. P-2
- 16.32 Inspect and test ignition system pick-up sensor or triggering devices; replace as needed. P-2

## LIST PERFORMANCE STANDARD ADDRESSED: (CONTINUED)

NUMBER(S):	TITLES(S):
16.33	Inspect and test ignition control module; replace as needed. P-2
16.36	Service product specific ignition systems.
16.09.1	Diagnose engine mechanical, electrical, electronic, fuel, and ignition problems with an oscilloscope and engine diagnostic equipment; determine needed action. P-1
16.10	Prepare 4 or 5 gas analyzer; inspect and prepare vehicle for test and obtain exhaust readings; interpret readings and determine needed action. P-1
16.38	Diagnose hot or cold no-starting, hard starting, poor driveability, incorrect idle speed, poor idle, flooding, hesitation, surging, engine misfire, power loss, stalling, poor mileage, dieseling, and emissions problems on vehicles with injection-type fuel systems; determine needed action. P-1
16.39	Inspect fuel tank and fuel cap; inspect and replace fuel lines, fittings, and hoses. P-2
16.40	Check fuel for contaminants and quality. P-2
16.41	Inspect and test mechanical and electrical fuel pumps and pump control systems; replace as needed. P-2
16.42	Replace fuel filters. P-1
16.43	Inspect and test fuel pressure regulation system and components. P-2
16.46	Inspect and test fuel injectors; clean and replace. P-2
16.47	Inspect throttle body mounting plates, air induction and filtration system, intake manifold, and gaskets; clean or replace as needed. P-2
16.49	Remove, inspect, and test vacuum and electrical components and connections of fuel system; repair or replace as needed. P-2
16.56	Service product specific fuel injection systems.
16.57	Diagnose oil leaks, emissions, and driveability problems resulting from failure of the positive crankcase ventilation (PCV) system. P-1

## LIST PERFORMANCE STANDARD ADDRESSED: (CONTINUED)

NUMBER(S):	TITLES(S):
16.58	Inspect and test positive crankcase ventilation (PCV) filter/breather cap, valve, tubes, orifices, and hoses; service or replace as needed. P-2
16.59	Diagnose emissions and drivability problems caused by failure of the exhaust gas recirculation (EGR) system.P-1
16.60	Inspect and test valve, valve manifold, and exhaust passages of exhaust gas recirculation (EGR) systems; service or replace as needed. P-2
16.61	Inspect and test vacuum/pressure controls, filters, and hoses of exhaust gas recirculation (EGR) systems; service or replace as needed. P-2
16.62	Inspect and test electrical/electronic sensors, controls, and wiring of exhaust gas recirculation (EGR) systems; repair or replace as needed. P-2
16.63	Diagnose emissions and driveability problems resulting from failure of the secondary air injection and catalytic converter systems. P-2
16.64	Inspect and test mechanical components of secondary air injection systems; service or replace as needed. P-2
16.65	Inspect and test electrical/electronically-operated components and circuits of air injection systems; replace as needed. P-2
16.66	Inspect and test components of catalytic converter systems; replace as needed. P-2
16.67	Diagnose emissions and drivability problems resulting from failure of the intake air temperature control systems. P-3
16.58	Inspect and test positive crankcase ventilation (PCV) filter/breather cap, valve, tubes, orifices, and hoses; service or replace as needed. P-2
16.68	Diagnose emissions and drivability problems caused by failure of the exhaust gas recirculation (EGR) system.P-1
16.69	Inspect and test valve, valve manifold, and exhaust passages of exhaust gas recirculation (EGR) systems; service or replace as needed. P-2
16.70	Inspect and test vacuum/pressure controls, filters, and hoses of exhaust gas recirculation (EGR) systems; service or replace as needed. P-2
16.71	Inspect and test electrical/electronic sensors, controls, and wiring of exhaust gas recirculation (EGR) systems; repair or replace as needed. P-2
16.72	Diagnose emissions and driveability problems resulting from failure of the secondary air injection and catalytic converter systems. P-2
16.73	Inspect and test mechanical components of secondary air injection systems; service or replace as needed. P-2
16.74	Inspect and test electrical/electronically-operated components and circuits of air injection systems; replace as needed. P-2
16.75	Inspect and test components of catalytic converter systems; replace as needed. P-2
16.76	Diagnose emissions and drivability problems resulting from failure of the intake air temperature control systems. P-3

## LIST PERFORMANCE STANDARD ADDRESSED: (CONTINUED)

NUMBER(S):	TITLES(S):
16.77	Inspect and test components of intake air temperature control systems; replace as needed. P-3
16.78	Diagnose emissions and drivability problems resulting from failure of early fuel evaporation control systems. P-3
16.71	Diagnose emissions and drivability problems resulting from failure of evaporative emissions control system. P-2
16.72	Inspect and test components and hoses of evaporative emissions control system; replace as needed. P-2
16.11	Diagnose emissions or drivability problems resulting from of computerized engine controls with no diagnostic trouble codes stored; determine needed repairs. P-2
16.12	Retrieve and record stored diagnostic trouble codes. P-1
16.13	Diagnose the causes of emissions or drivability problems resulting from failure of computerized engine controls with stored diagnostic trouble codes. P-2
16.14	Inspect, test, adjust, and replace computerized engine control system sensors, power train control module (PCM), actuators, and circuits. P-2
16.15	Obtain and interpret digital millimeter (DMM) readings. P-1
16.16	Access and use electronic service information (ESI). P-3
16.17	Locate and interpret vehicle and major component identification numbers (VIN, vehicle certification labels and calibration decals). P-1
16.18	Inspect and test power and ground circuits and connections; service or replace as needed. P-1
16.19	Practice recommended precautions when handling static sensitive devices. P-2
16.20	Diagnose drivability and emissions problems resulting from failures of interrelated systems (cruise control, security alarms, torque controls, suspension controls, traction controls, torque management, A/C, automatic transmissions, and similar systems); determine needed repairs. P-3
16.24	Perform product specific OBD II drive cycle diagnostic tests.

## AUTOMATIC TRANSMISSIONS &amp; TRANSAXLES

10.01	Interpret and verify driver's complaint; verify proper engine operation; determine needed repairs. P-1
10.02	Diagnose unusual fluid usage, level, and condition problems; determine needed repairs. P-1
10.08	Inspect, adjust or replace manual shift valve and throttle (TV) linkages or cables and check gear select indicator (as applicable). P-1
10.09	Service transmission; perform visual inspection; replace fluids and filters. P-1
10.10	Inspect, adjust or replace (as applicable) vacuum modulator; inspect and repair or replace lines and hoses. P-3
10.14	Inspect, leak test, flush, and replace cooler, lines, and fittings. P-1

## LIST PERFORMANCE STANDARD ADDRESSED: (CONTINUED)

NUMBER(S):            TITLES(S):

## AUTOMATIC TRANSMISSIONS &amp; TRANSAXLES

- 10.22     Remove and reinstall transmission and torque converter (rear-wheel drive). P-2
- 10.23     Remove and reinstall transmission and torque converter (rear-wheel drive). P-2

## AUTOMATIC TRANSMISSIONS &amp; TRANSAXLES

- 10.24     Disassemble, clean, and inspect transmission/transaxle. P-1
- 10.25     Assemble transmission/transaxle. P-1
- 10.26     Inspect converter flex plate, attaching parts, pilot and pump drive, and seal areas. P-2
- 10.27     Measure torque converter end play and check for interference check stator clutch. P-2
- 10.28     Inspect, measure, and replace oil pump housings, shafts, vanes, rotors, gears, valves, seals, and bushings. P-3
- 10.29     Check torque converter and transmission cooling system for contamination. P-1
- 10.30     Check endplay or preload; determine needed service. P-2
- 10.31     Inspect, measure, and replace thrust washers and bearings. P-2
- 10.32     Inspect oil delivery seal rings, ring grooves, and sealing surface areas. P-2
- 10.33     Inspect bushings; replace as needed. P-2
- 10.34     Inspect and measure planetary gear assembly (includes sun, ring gear, thrust washers, planetary gears, and carrier assembly); replace as needed. P-2
- 10.35     Inspect cases, bores, passages, bushings, vents, and mating surfaces; replace as needed. P-2
- 10.36     Inspect transaxle drive, link chains, sprockets, gears, bearings and bushings; replace as needed. P-2
- 10.37     Inspect, measure, repair, adjust or replace transaxle final drive components. P-2
- 10.38     Inspect and reinstall parking pawl, shaft, spring, and retainer; replace as needed. P-3
- 10.39     Inspect clutch drum, piston, check-balls, springs, retainers, seals, and friction and pressure plates; replace as needed. P-2
- 10.40     Measure clutch pack clearance; adjust as needed. P-1
- 10.41     Air test operation of clutch and servo assemblies. P-1
- 10.42     Inspect roller and sprag clutch, races, rollers, sprags, springs, cages, and retainers; replace as needed. P-2
- 10.43     Inspect bands and drums; replace as needed. P-3

## AUTOMATIC TRANSMISSIONS &amp; TRANSAXLES

- 10.11     Inspect, repair, and replace governor assembly. P-3
- 10.12     Inspect and replace external seals and gaskets. P-3
- 10.13     Inspect extension housing; replace bushing and seals. P-3
- 10.15     Inspect and replace speedometer drive gear, driven gear, vehicle speed sensor (VSS), and retainers. P-3
- 10.16     Inspect, measure, clean, and replace valve body (includes surfaces and bores, springs, valves, sleeves, retainers, brackets, check-balls, screens, spacers, and gaskets); check/adjust valve body bolt torque. P-2
- 10.17     Inspect servo bore, piston, seals, pin, spring, and retainers; repair or replace as needed. P-3
- 10.18     Inspect accumulator bore, piston, seals, spring, and retainer; repair or replace as needed. P-3

## LIST PERFORMANCE STANDARD ADDRESSED: (CONTINUED)

NUMBER(S):	TITLES(S):
10.19	Inspect, test, adjust, repair or replace transmission related electrical and electronic components (includes computers, solenoids, sensors, relays, switches, and harnesses). P-2
10.20	Inspect, replace, and align power train mounts. P-3
10.21	Inspect and replace parking pawl, shaft, spring, and retainer. P-3
10.26	Inspect converter flex plate, attaching parts, pilot and pump drive, and seal areas. P-2
10.27	Measure torque converter end play and check for interference check stator clutch. P-2
10.28	Inspect, measure, and replace oil pump housings, shafts, vanes, rotors, gears, valves, seals, and bushings. P-3
10.29	Check torque converter and transmission cooling system for contamination. P-1
10.30	Check end play or preload; determine needed service. P-2
10.31	Inspect, measure, and replace thrust washers and bearings. P-2
10.32	Inspect oil delivery seal rings, ring grooves, and sealing surface areas. P-2
10.33	Inspect bushings; replace as needed. P-2
10.34	Inspect and measure planetary gear assembly (includes sun, ring gear, thrust washers, planetary gears, and carrier assembly); replace as needed. P-2
10.35	Inspect cases, bores, passages, bushings, vents, and mating surfaces; replace as needed. P-2
10.36	Inspect transaxle drive, link chains, sprockets, gears, bearings and bushings; replace as needed. P-2
10.37	Inspect, measure, repair, adjust or replace transaxle final drive components. P-2
10.38	Inspect and reinstall parking pawl, shaft, spring, and retainer; replace as needed. P-3
10.39	Inspect clutch drum, piston, check-balls, springs, retainers, seals, and friction and pressure plates; replace as needed. P-2
10.40	Measure clutch pack clearance; adjust as needed. P-1
10.41	Air test operation of clutch and servo assemblies. P-1
10.42	Inspect roller and sprag clutch, races, rollers, sprags, springs, cages, and retainers; replace as needed. P-2
10.43	Inspect bands and drums; replace as needed. P-3
10.44	Achieve product specific certification requirements for automatic transmission systems.
10.45	Achieve product specific certification requirements for automatic transaxle systems.
10.46	Achieve product specific certification requirements for computer shifted transmission systems.

## AUTOMATIC TRANSMISSIONS &amp; TRANSAXLES

10.03	Perform pressure tests; determine needed repairs. P-1
10.04	Perform stall tests; determine needed repairs. P-2
10.05	Perform lock-up converter system tests; determine needed repairs. P-2
10.06	Diagnose electronic, mechanical, and vacuum control systems; determine needed repairs. P-2
10.07	Diagnose noise and vibration problems; determine needed repairs. P-3

## AUTOMATIC TRANSMISSIONS &amp; TRANSAXLES

10.03	Perform pressure tests; determine needed repairs. P-1
10.04	Perform stall tests; determine needed repairs. P-2
10.05	Perform lock-up converter system tests; determine needed repairs. P-2

## LIST PERFORMANCE STANDARD ADDRESSED: (CONTINUED)

NUMBER(S):	TITLES(S):
10.06	Diagnose electronic, mechanical, and vacuum control systems; determine needed repairs. P-2
10.07	Diagnose noise and vibration problems; determine needed repairs. P-3
10.11	Inspect, repair, and replace governor assembly. P-3
10.12	Inspect and replace external seals and gaskets. P-3
10.13	Inspect extension housing; replace bushing and seals. P-3
10.15	Inspect and replace speedometer drive gear, driven gear, vehicle speed sensor (VSS), and retainers. P-3
10.16	Inspect, measure, clean, and replace valve body (includes surfaces and bores, springs, valves, sleeves, retainers, brackets, check-balls, screens, spacers, and gaskets); check/adjust valve body bolt torque. P-2
10.17	Inspect servo bore, piston, seals, pin, spring, and retainers; repair or replace as needed. P-3
10.18	Inspect accumulator bore, piston, seals, spring, and retainer; repair or replace as needed. P-3
10.19	Inspect, test, adjust, repair or replace transmission related electrical and electronic components (includes computers, solenoids, sensors, relays, switches, and harnesses). P-2
10.20	Inspect, replace, and align power train mounts. P-3
10.21	Inspect and replace parking pawl, shaft, spring, and retainer. P-3
10.26	Inspect converter flex plate, attaching parts, pilot and pump drive, and seal areas. P-2
10.27	Measure torque converter end play and check for interference check stator clutch. P-2
10.28	Inspect, measure, and replace oil pump housings, shafts, vanes, rotors, gears, valves, seals, and bushings. P-3
10.29	Check torque converter and transmission cooling system for contamination. P-1
10.30	Check end play or preload; determine needed service. P-2
10.31	Inspect, measure, and replace thrust washers and bearings. P-2
10.32	Inspect oil delivery seal rings, ring grooves, and sealing surface areas. P-2
10.33	Inspect bushings; replace as needed. P-2
10.34	Inspect and measure planetary gear assembly (includes sun, ring gear, thrust washers, planetary gears, and carrier assembly); replace as needed. P-2
10.35	Inspect cases, bores, passages, bushings, vents, and mating surfaces; replace as needed. P-2
10.36	Inspect transaxle drive, link chains, sprockets, gears, bearings and bushings; replace as needed. P-2
10.37	Inspect, measure, repair, adjust or replace transaxle final drive components. P-2
10.38	Inspect and reinstall parking pawl, shaft, spring, and retainer; replace as needed. P-3
10.39	Inspect clutch drum, piston, check-balls, springs, retainers, seals, and friction and pressure plates; replace as needed. P-2
10.40	Measure clutch pack clearance; adjust as needed. P-1
10.41	Air test operation of clutch and servo assemblies. P-1
10.42	Inspect roller and sprag clutch, races, rollers, sprags, springs, cages, and retainers; replace as needed. P-2
10.43	Inspect bands and drums; replace as needed. P-3
10.44	Achieve product specific certification requirements for automatic transmission systems.
10.45	Achieve product specific certification requirements for automatic transaxle systems.
10.46	Achieve product specific certification requirements for computer shifted transmission systems.

## LIST PERFORMANCE STANDARD ADDRESSED: (CONTINUED)

NUMBER(S):            TITLES(S):

## ELECTRICAL / ELECTRONICS

- 14.12 Diagnose brighter than normal, intermittent, dim or no light operation. P-2
- 14.13 Inspect, replace, and aim headlights and bulbs. P-2
- 14.14 Inspect and diagnose incorrect turn signal or hazard light operation; repair or replace as needed. \ P-2
- 14.48 Achieve product specific certification requirements for electrical/electronic systems.
- 14.49 Service and repair product specific electrical/electronic systems.
- 14.50 Perform product specific diagnostic procedures.

## ELECTRICAL / ELECTRONICS

- 14.15 Diagnose intermediate, high, low or no gauge readings. P-2
- 14.16 Test gauge circuit voltage regulators (limiters); replace as needed. P-3
- 14.17 Inspect and test gauges and gauge sending units; replace as needed. P-2
- 14.18 Inspect and test connectors, wires, and printed circuit boards of gauge circuits; repair or replace as needed. P-3
- 14.19 Diagnose incorrect operation of warning devices and other driver information systems. P-2
- 14.20 Diagnose intermediate, high, low or no readings on electronic instrument clusters. P-3
- 14.21 Inspect and test sensors, sending units, connectors, and wires of electronic instrument circuits; repair or replace as needed. P-3
- 14.22 Diagnose incorrect horn operation; repair as needed. P-3
- 14.23 Diagnose incorrect wiper operation; diagnose wiper speed control and park problems; repair as needed. P-3
- 14.24 Diagnose incorrect windshield washer operation; repair as needed. P-3
- 14.25 Diagnose incorrect operation of motor-driven accessory circuits; repair as needed. P-2
- 14.26 Diagnose incorrect heated glass operation; repair as needed. P-3
- 14.27 Diagnose incorrect electric door and hatch/trunk lock operation; repair as needed. P-3
- 14.28 Diagnose incorrect operation of cruise control systems; repair as needed. P-3
- 14.47 Diagnose radio static and weak, intermittent, or no radio reception. P-3
- 14.48 Achieve product specific certification requirements for electrical/electronic systems.
- 14.49 Service and repair product specific electrical/electronic systems.
- 14.50 Perform product specific diagnostic procedures.

## LIST PERFORMANCE STANDARD ADDRESSED: (CONTINUED)

NUMBER(S):	TITLES(S):
14.43	Diagnose supplemental restraint system (SRS) problems; repair as needed. (NOTE: Follow manufacturer's safety procedures to prevent accidental deployment.) P-3
14.48	Achieve product specific certification requirements for electrical/electronic systems.
14.49	Service and repair product specific electrical/electronic systems.
14.50	Perform product specific diagnostic procedures.
08.58	Inspect passenger restraint system, repair if needed.
14.46	Diagnose supplemental restraint system (SRS) problems; repair as needed. (NOTE: Follow manufacturer's safety procedures to prevent accidental deployment.) P-3
14.48	Achieve product specific certification requirements for electrical/electronic systems.
14.49	Service and repair product specific electrical/electronic systems.
14.50	Perform product specific diagnostic procedures.
08.59	Inspect passenger restraint system, repair if needed.

Means of Evaluation: The EMPLOYEE INTERNSHIP EVALUATION REPORT and a weekly STUDENT WORK REPORT will be utilized.



NOTE: Use either the Tab key or mouse click to move from field to field. The box will expand to accommodate your entry.

Section 1		SEMESTER CREDIT HOURS: <u>2.0</u>
COURSE PREFIX AND NUMBER: <u>AER 2881</u>		
COURSE TITLE: <u>Automotive MLR Internship 2</u>		
Section 2		
TYPE OF COURSE: (Click on the box to check all that apply)		
<input type="checkbox"/> AA Elective	<input checked="" type="checkbox"/> AS Required Professional Course	<input type="checkbox"/> College Prep
<input type="checkbox"/> AS Professional Elective	<input checked="" type="checkbox"/> AAS Required Professional Course	<input checked="" type="checkbox"/> Technical Certificate
<input type="checkbox"/> Other _____		
<input type="checkbox"/> General Education: (For General Education courses, you must also complete Section 3 and Section 7)		
Section 3 (If applicable)		
INDICATE BELOW THE DISCIPLINE AREA FOR GENERAL EDUCATION COURSES:		
<input type="checkbox"/> Communications	<input type="checkbox"/> Social & Behavioral Sciences	<input type="checkbox"/> Mathematics
<input type="checkbox"/> Natural Sciences	<input type="checkbox"/> Humanities	
Section 4		
INTELLECTUAL COMPETENCIES:		
<input checked="" type="checkbox"/> Reading	<input checked="" type="checkbox"/> Speaking	<input checked="" type="checkbox"/> Critical Analysis
<input checked="" type="checkbox"/> Writing	<input checked="" type="checkbox"/> Listening	<input checked="" type="checkbox"/> Information Literacy
<input type="checkbox"/> Quantitative Skills	<input type="checkbox"/> Scientific Method of Inquiry	
<input type="checkbox"/> Ethical Judgment	<input checked="" type="checkbox"/> Working Collaboratively	
Section 5		
	<b>LEARNING OUTCOMES</b>	<b>METHOD OF ASSESSMENT</b>
• 1	DEMONSTRATE AN UNDERSTANDING OF AUTOMOTIVE MECHANICS. see attached framework	Student assembled portfolio of work orders, Employer evaluations, Co-op OJT observations
• 2	APPLY ELECTRICAL AND ELECTRONIC SKILLS IN DIAGNOSING\ TROUBLESHOOTING MALFUNCTIONS OF ELECTRICAL/ELECTRONIC COMPONENTS see attached framework	Student assembled portfolio of work orders, Employer evaluations, Co-op OJT observations
• 3	Demonstrate proficiency in automotive engine performance service.	Student assembled portfolio of work orders, Employer evaluations, Co-op OJT observations
• 4	04.0 Demonstrate proficiency in servicing automatic transmissions.	Student assembled portfolio of work orders, Employer evaluations, Co-op OJT observations
• 6	08.0 Demonstrate proficiency in servicing manual drive trains and axles.	Student assembled portfolio of work orders, Employer evaluations, Co-op OJT observations
• 7	09.0 Demonstrate proficiency in engine repair service.	Student assembled portfolio of work orders, Employer evaluations, Co-op OJT observations
Section 6 Name of Person Completing This Form: <u>Jeffrey Rehkopf</u>		Date: <u>Mar 4, 2008</u>