



MAJOR APPLIANCE SERVICE TECHNOLOGY

STUDENT GRADE RECORD

Career & Technology Education

WINDHAM SCHOOL DISTRICT

Student Name _____

TDCJ # _____

Instructor Name _____

Unit _____

WSD Certificate	Y / N	
If I were hiring for this position, I would: (check one)		
<input type="checkbox"/> 0-No recommendation at this time. (Cannot be used for Completers.)		
<input type="checkbox"/> 1-Hire this person and look no further.		
<input type="checkbox"/> 2-Interview this person along with other applicants		
<input type="checkbox"/> 3-Not hire this person.		
Complete only if student attempted industry certification.		
Name of Industry Certificate	Code	P/F
EPA 608 Test 1	0336	
EPA 608 Test 2	0337	
EPA 608 Test 3	0338	

Course Outline Modules	Windham Module Test	Module Competency Rating
1. CTE Orientation		
2. CTE Safety		
3. Fundamentals of Electricity		
4. AC Induction Motors		
5. Diagrams and Schematics		
6. Tools, Materials, and Test Instruments		
7. Automatic Washers		
8. Automatic Dryers		
9. Automatic Dishwashers		
10. Garbage Disposers		
11. Trash Compactors		
12. Gas Ranges and Ovens		
13. Electric Ranges and Ovens		
14. Microwave Ovens		
DOMESTIC REFRIGERATION		
15. Service Fundamentals		
16. Mechanical Components and Functions		
17. Electrical Components and Control Devices		
18. Refrigerator and Freezer Service		
19. Domestic Ice Maker Service		
20. Window Air Conditioner Service		

Windham Module Test Average		x . 75	a	Completer
Windham End of Course Exam		x . 25	b	
Windham Module Score (a + b=)				70+
% Competencies Completed				70+
Module Competency Rating				2.7+

I attest that all of the information reported on this form is true.

Instructor Signature

Date

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STUDENT PROGRESS RECORD

RECORDING DIRECTIONS

SKILL RATING: Post the student's competency rating for each skill performed.

MODULE TEST SCORE: Enter the student's test score for the module.

MODULE RATING: Use the following scale to determine module rating:

[4] Skilled - Can perform competencies independently with no supervision.

[3] Moderately Skilled - Can perform competencies with limited supervision.

[2] Limited Skill - Requires instruction and close supervision to perform competencies.

[1] Unskilled - Exposed to concept, but no hands-on experience.

Note: When evaluating a student's module rating, skill performance should be given priority.

1. CTE Orientation

Teacher Student

Initial Initial

- ____ | ____ 1. Identify employment opportunities related to the course.
- ____ | ____ 2. Identify the number of classroom hours a student must attend to be considered as a completer.
- ____ | ____ 3. Identify the industry-recognized certification.
- ____ | ____ 4. Identify course expectations including:
- Working conditions
 - Attendance expectations
 - Instructor's expectations

2. CTE Safety

Module Test Score _____

Minimum 100% Required

____ *Module Rating (4, 3, 2, 1)*

- ____ 1. Apply general safety principles to the school and workplace.
- ____ 2. Determine correct fire extinguisher to use for various situations.
- ____ 3. Determine the ability to properly operate a fire extinguisher.
- ____ 4. Demonstrate the ability to safely lift an object.
- ____ 5. Interpret Material Safety Data Sheets (MSDS).
- ____ 6. Compile a list of hazardous materials found in your shop and provide additional information on the most common ones.
- ____ 7. Identify the safety color codes for your shop.
- ____ 8. Identify safety workplace violations.
- ____ 9. Complete an individual student shop safety inspection.
- ____ 10. Determine basic first aid measures for given emergency situations, including dealing with possible blood-borne pathogens.

3. Fundamentals of Electricity

Module Test Score _____

____ *Module Rating (4, 3, 2, 1)*

- ____ 1. Solve problems for an unknown voltage.
- ____ 2. Solve problems for an unknown amperage.
- ____ 3. Solve problems for an unknown resistance.
- ____ 4. Identify resistor values using a standard color code.

4. AC Induction Motors

Module Test Score _____

____ *Module Rating (4, 3, 2, 1)*

- ____ 1. Troubleshoot an AC induction motor for thermal overload.
- ____ 2. Troubleshoot an AC induction motor to determine whether the start mechanism or the start windings are bad, and replace a centrifugal switch.

5. Diagrams and Schematics

Module Test Score _____

____ *Module Rating (4, 3, 2, 1)*

- ____ 1. Interpret a timer sequence chart and wiring diagram for an automatic dishwasher.

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6. Tools, Materials, and test Equipment

Module Test Score _____

Module Rating (4, 3, 2, 1)

- _____ 1. Identify selected tools.
- _____ 2. Test electrical receptacles for proper voltage.
- _____ 3. Use a clamp-on ammeter to test for high and low amperages on a fan motor and a light bulb.
- _____ 4. Make a continuity check of a magnetic control assembly from an automatic washer.
- _____ 5. Splice electrical conductors to acceptable service standards.
- _____ 6. Use a VOM for a quick capacitor check.

7. Automatic Washers

Module Test Score _____

Module Rating (4, 3, 2, 1)

- _____ 1. Install an automatic washer.
- _____ 2. Troubleshoot a Whirlpool/Kenmore automatic washer for typical malfunctions.
- _____ 3. Troubleshoot a GE/Hotpoint automatic washer for typical malfunctions.
- _____ 4. Troubleshoot a microprocessor control panel for typical malfunctions.

8. Automatic Dryers

Module Test Score _____

Module Rating (4, 3, 2, 1)

- _____ 1. Install an automatic dryer.
- _____ 2. Troubleshoot a Whirlpool/Kenmore automatic dryer for typical malfunctions.
- _____ 3. Troubleshoot a GE/Hotpoint automatic dryer for typical malfunctions.
- _____ 4. Troubleshoot a microprocessor control panel for typical malfunctions.

9. Automatic Dishwashers

Module Test Score _____

Module Rating (4, 3, 2, 1)

- _____ 1. Install an automatic dishwasher under counter.
- _____ 2. Troubleshoot malfunctions on an automatic dishwasher.
- _____ 3. Inspect the seal on an automatic dishwasher.

10. Garbage Disposers

Module Test Score _____

Module Rating (4, 3, 2, 1)

- _____ 1. Install a garbage disposer.
- _____ 2. Free a jammed garbage disposer.

11. Trash Compactors

Module Test Score _____

Module Rating (4, 3, 2, 1)

- _____ 1. Use schematics to determine operating conditions on a trash compactor.
- _____ 2. Install an under-counter trash compactor to specifications.
- _____ 3. Test the drive motor on a trash compactor to determine its operational condition.
- _____ 4. Troubleshoot common trash compactor problems.

12. Gas Ranges and Ovens

Module Test Score _____

Module Rating (4, 3, 2, 1)

- _____ 1. Use a wiring schematic to determine voltage and resistance readings on a self-cleaning gas oven set for a bake operation.
- _____ 2. Use a wiring schematic to determine voltage and resistance readings on a self-cleaning gas oven set for a timed bake operation.
- _____ 3. Use a wiring schematic to determine voltage and resistance readings on a self-cleaning gas oven set for a cleaning operation.
- _____ 4. Use a wiring schematic to determine voltage and resistance readings on a self-cleaning gas oven during lock and unlock.
- _____ 5. Install a gas range, leveled, and leak free, with all burners properly adjusted.
- _____ 6. Use a temperature tester to check gas oven temperature for proper oven thermostat settings.
- _____ 7. Recalibrate a gas oven thermostat to correct settings.
- _____ 8. Remove, disassemble, clean, lubricate, and reassemble a standard gas burner valve.

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13. Electric Ranges and Ovens

Module Test Score _____

_____ *Module Rating (4, 3, 2, 1)*

- _____ 1. Remove a surface unit from an electric range and check for proper resistance.
- _____ 2. Check the self-cleaning function of an electric oven.
- _____ 3. Make continuity checks on step-type and infinite electric range switches.

14. Microwave Ovens

Module Test Score _____

_____ *Module Rating (4, 3, 2, 1)*

- _____ 1. Test the interlock system on a microwave oven for safe operation.
- _____ 2. Check an RF leakage test meter and check a microwave oven for RF leakage.
- _____ 3. Clean and deodorize a microwave oven.
- _____ 4. Determine if selected utensils are microwave safe.
- _____ 5. Discharge a capacitor.
- _____ 6. Check stirrer blade rotation and remove and disassemble a stirrer system.
- _____ 7. Replace and adjust a microwave oven door assembly.
- _____ 8. Conduct power test on a microwave oven to check for temperature rise under full power.
- _____ 9. Test and replace high voltage components when an oven produces little or no heat.
- _____ 10. Remove a blower motor and transformer and remove and install a magnetron.
- _____ 11. Check the interlock switch module on a microwave oven.
- _____ 12. Test and replace magnetron and cavity thermal protectors.
- _____ 13. Test and replace a low voltage transformer and triac module.
- _____ 14. Test a temperature probe and jack.
- _____ 15. Test and replace an oven timer and an oven controller.
- _____ 16. Remove, test, and replace a control board.
- _____ 17. Test a control circuit board.
- _____ 18. Test a cook relay.
- _____ 19. Test and replace a turntable motor.

DOMESTIC REFRIGERATION

15. Service Fundamentals

Module test Score _____

_____ *Module Rating (4, 3, 2, 1)*

- _____ 1. Install a refrigerator.
- _____ 2. Adjust a refrigerator door.
- _____ 3. Switch refrigerator door orientation.

16. Mechanical Components and Functions

Module Test Score _____

_____ *Module Rating (4, 3, 2, 1)*

- _____ 1. Attach a manifold gauge set to a refrigerator or freezer using a line tap valve.
- _____ 2. Access a refrigerator or freezer with a service valve adapter.

17. Electrical Components and Control Devices

Module Test Score _____

_____ *Module Rating (4, 3, 2, 1)*

- _____ 1. Identify heater circuits on a schematic.
- _____ 2. Identify controls on a schematic.
- _____ 3. Replace a temperature control.
- _____ 4. Replace a defrost heater.

18. Refrigerator and Freezer Service

Module Test Score _____

_____ *Module Rating (4, 3, 2, 1)*

- _____ 1. Use a troubleshooting guide to find possible causes of customer complaints.
- _____ 2. Diagnose circuit problems using a schematic.
- _____ 3. Select filter-driers for a given applications.
- _____ 4. Select compressors for a given applications.
- _____ 5. Perform maintenance on a refrigerator or freezer.
- _____ 6. Remove and replace broken trim.
- _____ 7. Troubleshoot selected problems in a refrigerator or freezer.
- _____ 8. Check the efficiency of a compressor.
- _____ 9. Replace an evaporator fan motor.
- _____ 10. Replace a condenser fan motor.
- _____ 11. Repair a leak in an aluminum evaporator using paste epoxy.
- _____ 12. Repair a leak in an aluminum evaporator using a pre-mixed, two part epoxy stick.

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