

ELECTRICAL TRADES

STUDENT GRADE RECORD *Career & Technical Education* WINDHAM SCHOOL DISTRICT

Student Name _____

TDCJ # _____

Social Security Number _____

Certified Craft Instructor _____

Certified Craft Instructor Code _____

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
NCCER, Core	0300
NCCER, CSSO	0102
NCCER Electrical Level 1	0321
OSHA	0100

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

Certified Craft Instructor Signature

Date of Report – CORE _____

Date of Report – CSSO _____

Date of Report – Level I _____

Sponsor Representative

Course Outline Modules	Industry Module Test	Industry Performance Module	Module Competency Rating
CORE			
0. CTE Orientation			
1. Basic Safety- 00101-09			
2. Introduction to Construction Math- 00102-09			
3. Introduction to Hand Tools- 00103-09			
4. Introduction to Power Tools- 00104-09			
5. Introduction to Construction Drawings- 00105-09			
6. Basic Rigging- 00106-09			
7. Basic Communication Skills- 00107-09			
8. Basic Employability Skills- 00108-09			
9. Introduction to Materials Handling- 00109-09			
ELECTRICAL LEVEL-I			
10. Orientation to the Electrical Trade- 26101-11			
11. Electrical Safety- 26102-11			
12. Introduction to Electrical Circuits- 26103-11			
13. Electrical Theory- 26104-11			
14. Introduction to the <i>National Electric Code</i> [®] - 26105-11			
15. Device Boxes- 26106-11			
16. Hand Bending- 26107-11			
17. Raceways and Fittings- 26108-11			
18. Conductors and Cables- 26109-11			
19. Basic Electrical Construction Drawings- 26110-11			
20. Residential Electrical Services- 26111-11			
21. Electrical Test Equipment- 26112-11			
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 hereby authorize the NCCER Registry Department to verify information in my craft training records to Sponsor Representatives upon request. I release and hold harmless the National Center for Construction Education and Research for this verification process.

Signature _____

Date _____

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STUDENT PROGRESS RECORD

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

CORE

0.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

1. Basic Safety- 00101-09

Module Test Score _____

Minimum 100% Required

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

- ____ 1. Inspect personal protective equipment (PPE) to determine if it is safe to use (PPE should include safety goggles, hard hat, gloves, safety harness and safety shoes).
- ____ 2. Properly don and remove PPE (safety goggles, hard hat, and fall protection).
- ____ 3. Demonstrate safe lifting procedures.
- ____ 4. Set up an extension ladder properly.
- ____ 5. Demonstrate three-point contact on a ladder.

2. Introduction to Construction Math- 00102-09

Module Test Score _____

This is knowledge-based; there is no performance test.

3. Introduction to Hand Tools- 00103-09

Module Test Score _____

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

- ____ 1. Visually inspect the following tools to determine if they are safe to use:
- Hammer
 - Screwdriver
 - Saw

- ____ 2. Make a straight square cut using a crosscut saw.
- ____ 3. Safely and properly use a minimum of three of the following tools:
- Hammer (to drive and pull nails)
 - Screwdriver (slotted and Phillips)
 - Adjustable wrench
 - CHANNELLOCK® pliers
 - Spirit level
 - Carpenter's square and steel tape
 - Saw

4. Introduction to Power Tools- 00104-09

Module Test Score _____

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

- ____ 1. Safely and properly use three of the following tools:
- Electric drill
 - Circular saw
 - Saw Zall®
 - Pneumatic power nailer

5. Introduction to Construction Drawings- 00105-09

Module Test Score _____

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

- ____ 1. Using the floor plan supplied with this module:
- Locate the wall common to both interview rooms.
 - Determine the overall width of the structure studio.
 - Find the distance from the outside east wall to the center of the beam in the structure studio.
 - Find the elevation of the slab.

6. Basic Rigging- 00106-09

Module Test Score _____

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

- ____ 1. Select and inspect appropriate slings for a lift.
- ____ 2. Given various loads, determine the proper hitch to be used.
- ____ 3. Select and inspect appropriate hardware and/or lifting equipment.
- ____ 4. Demonstrate and/or simulate the proper techniques for connecting hitches.

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- _____ 5. Demonstrate the proper use of all hand signals according to ANSI B30.2 and B30.5.
- _____ 6. Describe and demonstrate pre-lift safety checks.
- _____ 7. Demonstrate and/or simulate how to lift the load level.
- _____ 8. Describe and/or demonstrate safety precautions for attaching and disconnecting a load.

7. Basic Communication Skills- 00107-09

_____ *Module Test Score* _____

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

- _____ 1. Fill out a work-related form supplied by your instructor. (Handouts 4 and 5 are sample forms and are provided in the AIG for this module as an optional resource.)
- _____ 2. Read instructions for how to properly don a safety harness, orally instruct another person to don the apparatus.
- _____ 3. Perform given task after listening to oral instructions.

8. Basic Employability Skills- 00108-09

_____ *Module Test Score* _____

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

- _____ 1. Demonstrate the ability to access, retrieve, and print from the following basic software programs:
 - Email
 - Databases
 - internet

9. Introduction to Materials Handling- 00109-09

_____ *Module Test Score* _____

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

- _____ 1. Demonstrate proper materials-handling techniques.

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10. Orientation to the Electrical Trade- 26101-11

_____ *Module Test Score* _____

This is knowledge-based; there is no performance test.

11. Electrical Safety- 26102-11

_____ *Module Test Score* _____

Minimum 100% Required

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

- _____ 1. Perform a visual inspection on various types of ladders.

- _____ 2. Set up a ladder properly to perform a task.
- _____ 3. Properly don a harness.
- _____ 4. Perform a hazard assessment of a job such as replacing the lights in your classroom.
 - Discuss the work to be performed and the hazards involved.
 - Locate the phone closest to the work site and ensure that the local emergency telephone numbers are either posted at the phone or known by you and your partner(s).
 - Plan an escape route from the location in the event of an accident.

12. Introduction to Electrical Circuits- 26103-11

_____ *Module Test Score* _____

This is knowledge-based; there is no performance test.

13. Electrical Theory-26104-11

_____ *Module Test Score* _____

This is knowledge-based; there is no performance test.

14. Introduction to the *National Electrical Code*® 26105-11

_____ *Module Test Score* _____

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

- _____ 1. Use *NEC*® **Article 90** to determine the scope of the *NEC*®. State what is covered by the *NEC*® and what is not.
- _____ 2. Find the definition of the term *feeder* in the *NEC*®.
- _____ 3. Look up the *NEC*® specifications that you would need to follow if you were installing an outlet near a swimming pool.
- _____ 4. Find the minimum wire bending space required if two No. 1/0 AWG conductors were to be installed in a junction box or cabinet and entering the opposite terminal.

15. Device Boxes- 26106-11

_____ *Module Test Score* _____

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

- _____ 1. Identify the appropriate box type and size for a given application.
- _____ 2. Select the minimum size pull or junction box for the following applications.
 - Conduit entering and exiting for a straight pull
 - Conduit entering and exiting at an angle

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16. Hand Bending- 26107-11

Module Test Score _____

Module Rating (4, 3, 2)

1. Make 90-degree bends, back-to-back bends, offsets, kicks, and saddle bends using a hand bender.
2. Cut, ream, and thread conduit.

17. Raceways and Fittings- 26108-11

Module Test Score _____

Module Rating (4, 3, 2)

1. Identify and select various types and sizes of raceways, fittings, and fasteners for a given application.
2. Demonstrate how to install a flexible raceway system.
3. Terminate a selected raceway system.
4. Identify the appropriate conduit body for a given application.

18. Conductors and Cables - 26109-11

Module Test Score _____

Module Rating (4, 3, 2)

1. Install conductors in a raceway system.

19. Basic Electrical Construction Drawings- 26110-11

Module Test Score _____

Module Rating (4, 3, 2)

1. Using an architect's scale, state the actual dimensions of a given drawing component.
2. Make a material takeoff of the lighting fixtures specified in Performance Profile Sheet 2 using the drawing provided on Performance Profile Sheet 3. The takeoff requires that all lighting fixtures be counted, and where applicable, the total number of lamps for each fixture type must be calculated.

20. Residential Electrical Services- 26111-11

Module Test Score _____

Module Rating (4, 3, 2)

1. For a residential dwelling of a given size, and equipped with a given list of major appliances, demonstrate or explain how to:
 - Compute the lighting, small appliance, and laundry loads
 - Compute the loads for large appliances
 - Determine the number of branch circuits required

- Size and select the service-entrance equipment (conductors, panelboard, and protective devices).

2. Using an unlabeled diagram of a panelboard (Performance Profile Sheet 3), label the lettered components.
3. Select the proper type and size outlet box needed for a given set of wiring conditions.

21. Electrical Test Equipment- 26112-11

Module Test Score _____

Module Rating (4, 3, 2)

1. Under instructor supervision, measure the voltage in your classroom from line to neutral and neutral to ground.
2. Under instructor supervision, use an ohmmeter to measure the value of various resistors.

Number of Skills Completed ÷

47 Number of Skills on SPR =

% of Skills Completed

Conference

Date: _____ Hours in class: _____

Comments:

Teacher initial: _____ Student initial: _____

Student Name: _____

TDCJ Number: _____

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