



Electrical Fundamentals

Youth Apprenticeship

ELECTRICAL FUNDAMENTALS

Electrical Fundamentals youth apprentices gain skills related to the use of construction safety, drawings and blueprints, materials, tools, and electrical worksite procedures. Apprentices must adhere to industry safety and security standards.

Length of Apprenticeship: One or two years

REQUIRED COMPETENCIES

Youth apprentices must become proficient in both general employability and occupation-specific competencies. All of these, and examples of how each can be demonstrated, are found in the following pages. **Year 1:** Fifteen fundamentals occupational competencies and a minimum of 1 specialty competency must be learned for this occupation. **Year 2:** Fifteen fundamentals occupational competencies and a minimum of 2 specialty competencies different than first year must be learned for this occupation.

A specialty competency may be repeated only if the type of construction (residential or commercial) differs from the first year. Employers may substitute out one of these and should write in the competency they are adding. Where necessary, skills can be simulated. Youth apprentices must be evaluated on these competencies at least two times each year of their apprenticeship.

Youth Apprentices must also complete the following during Year 1:

- First Aid Certification
- Occupational Safety Health Administration (OSHA) 10 or 30 Certification

Select construction type and circle the applicable year:

- Residential completed during Year: One and/or Two
- Commercial completed during Year: One and/or Two

Electrical Fundamentals Competencies	Electrical Specialty Competencies
<ol style="list-style-type: none">1. Follow safety procedures2. Read construction drawings and plans3. Interpret symbols and procedures4. Contribute to a job task plan5. Work as a member of a construction team6. Prepare work area for construction7. Select construction materials8. Use hand and light duty tools9. Use power tools and equipment	<ol style="list-style-type: none">16. Assist with cutting wire, cable, conduit, and raceway, cording and cutting chasses17. Assist with pulling wires and attaching wires18. Assist with connecting conductors to switches, receptacles or appliances19. Assist with installation of switches, outlet boxes and fixture boxes20. Assist with installation of feeders and circuits

Electrical Fundamentals Competencies	Electrical Specialty Competencies
10. Perform materials handling 11. Install materials per job specifications 12. Perform construction measurements 13. Maintain a clean and safe work area 14. Clean up job site 15. Practice quality craftsmanship	

REGISTERED APPRENTICESHIP BRIDGING OPPORTUNITIES

Some of the related instruction courses can bridge into the following registered apprenticeship:

- Electrical Construction
- Residential Wirer

POST-SECONDARY PATHWAY OPPORTUNITIES

There are several post-secondary pathway opportunities in this area. The following is a partial list.

- Construction Electrician
- Residential Electrician



Electrical Fundamentals

Youth Apprenticeship
ON-THE-JOB LEARNING PERFORMANCE STANDARDS GUIDE

YOUTH APPRENTICE INFORMATION

Youth Apprentice Name
YA Coordinator
YA Consortium
School District

WORK REQUIREMENT

All YA Construction Electrical Fundamentals student must be registered with the Wisconsin Department of Safety and Professional Services (DSPS). Instructions for application are available on the [DSPS website](#).

SIGNATURES

The On-the-Job Learning Performance Standards Guide includes a list of competencies youth apprentices learn through mentoring and training at the worksite.

Instructions for the Worksite Employers/Mentors and School-Based or YA coordinators: This document should be reviewed with the employer/mentor, school-based or YA coordinator on a regular basis with the youth apprentice to record progress and plan future steps to ensure completion of the required competencies. Mentors, school-based/YA coordinator, and the apprentice sign below.

Employer/Mentor

1 st Evaluation (Required)	2 nd Evaluation (Required)
Employer/Mentor Signature	Employer/Mentor Signature
Employer/Mentor	Employer/Mentor
Business/Company	Business/Company
Date Signed	Date Signed

3rd Evaluation (Optional)

4th Evaluation (Optional)

Employer/Mentor Signature	Employer/Mentor Signature
Employer/Mentor	Employer/Mentor
Business/Company	Business/Company
Date Signed	Date Signed

School-Based and/or YA Coordinator**1st Evaluation (Required)****2nd Evaluation (Required)**

School-Based and/or YA Coordinator Signature	School-Based and/or YA Coordinator Signature
School-Based and/or YA Coordinator	School-Based and/or YA Coordinator
School District or Organization	School District or Organization
Date Signed	Date Signed

3rd Evaluation (Optional)**4th Evaluation (Optional)**

School-Based and/or YA Coordinator Signature	School-Based and/or YA Coordinator Signature
School-Based and/or YA Coordinator	School-Based and/or YA Coordinator
School District or Organization	School District or Organization
Date Signed	Date Signed

Youth Apprentice**1st Evaluation (Required)****2nd Evaluation (Required)**

Youth Apprentice Signature	Youth Apprentice Signature
Youth Apprentice	Youth Apprentice
School District / High School	School District / High School
Date Signed	Date Signed

3rd Evaluation (Optional)**4th Evaluation (Optional)**

Youth Apprentice Signature	Youth Apprentice Signature
Youth Apprentice	Youth Apprentice
School District / High School	School District / High School
Date Signed	Date Signed

EMPLOYABILITY SKILLS (TO BE COMPLETED BY YA EMPLOYER/MENTOR)

All youth apprentices must demonstrate the key employability skills listed below in order to complete the YA program. They do so by earning at least a "Meets Expectation" rating in each. **At least two evaluations are required each year of a youth apprenticeship.** More columns are included below for those who choose to conduct more frequent reviews.

1	Working to Meet Expectations: Needs improvement; requires much assistance and supervision; rarely displays this behavior
2	Meets Expectations: Meets entry-level criteria; requires some supervision; often displays this behavior
3	Exceeds Expectations: Exceeds entry-level criteria; requires minimal supervision; consistently displays this behavior

Employability Skills		Rating			
Competency and Rating Criteria		Initial	Mid Year 1	Mid Year 2	Final
1. Develops positive work relationships with others. <i>Examples of qualities and habits that the employee might exhibit include:</i>	<ul style="list-style-type: none"> • Interacts with others with respect and in a non-judgmental manner • Responds to others in an appropriate and non-offensive manner • Helps co-workers and peers accomplish tasks or goals • Applies problem-solving strategies to improve relations with others • When managing others, shows traits such as compassion, listening, coaching, team development, and appreciation 	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3			
2. Communicates effectively with others <i>Examples of qualities and habits that the employee might exhibit include . . .</i>	<ul style="list-style-type: none"> • Adjusts the communication approach for the target audience, purpose, and situation to maximize impact • Organizes messages/information in a logical and helpful manner • Speaks clearly and writes legibly • Models behaviors to show active listening • Applies what was read to actual practice • Asks appropriate questions for clarity 	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3			
3. Collaborates with others <i>Examples of qualities and habits that the employee might exhibit include . . .</i>	<ul style="list-style-type: none"> • Works effectively in teams with people of diverse backgrounds regardless of sex, race, ethnicity, nationality, sexuality, religion, political views, and abilities • Shares responsibility for collaborative work and decision making • Uses the problem-solving process to work through differences of opinion in a constructive manner to achieve a reasonable compromise • Avoids contributing to an unproductive group conflict Shares information and carries out responsibilities in a timely manner 	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3			

Competency and Rating Criteria	Rating			
	Initial	Mid Year 1	Mid Year 2	Final
4. Maintains composure under pressure <i>Examples of qualities and habits that the employee might exhibit include . . .</i> <ul style="list-style-type: none"> • Uses critical thinking to determine the best options or outcomes when faced with a challenging situation • Carries out assigned duties while under pressure • Acts in a respectful, professional, and non-offensive manner while under pressure • Applies stress management techniques to cope under pressure 	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3			
5. Demonstrates integrity <i>Examples of qualities and habits that the employee might exhibit include . . .</i> <ul style="list-style-type: none"> • Carries out responsibilities in an ethical, legal and confidential manner • Responds to situations in a timely manner • Takes personal responsibility to correct problems • Models behaviors that demonstrate self-discipline, reliability, and dependability 	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3			
6. Performs quality work <i>Examples of qualities and habits that the employee might exhibit include . . .</i> <ul style="list-style-type: none"> • Carries out written and verbal directions accurately • Completes work efficiently and effectively • Performs calculations accurately • Conserves resources, supplies, and materials to minimize costs and environmental impact • Uses equipment, technology, and work strategies to improve workflow • Applies problem-solving strategies to improve productivity • Adheres to worksite regulations and practices • Maintains an organized work area 	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3			
7. Provides quality goods or services (internal and external) <i>Examples of qualities and habits that the employee might exhibit include . . .</i> <ul style="list-style-type: none"> • Shows support for the organizational goals and principles by own personal actions • Displays a respectful and professional image to customers • Displays an enthusiastic attitude and desire to take care of customer needs • Seeks out ways to increase customer satisfaction • Produces goods to workplace specifications 	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3			
8. Shows initiative and self-direction <i>Examples of qualities and habits that the employee might exhibit include . . .</i> <ul style="list-style-type: none"> • Prioritizes and carries out responsibilities without being told • Responds with enthusiasm and flexibility to handle tasks that need immediate attention • Reflects on any unsatisfactory outcome as an opportunity to learn • Improves personal performance by doing something different or differently • Analyzes how own actions impact the overall organization • Supports own action with sound reasoning and principles • Balances personal activities to minimize interference with work responsibilities 	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3			

Competency and Rating Criteria	Rating			
	Initial	Mid Year 1	Mid Year 2	Final
9. Adapts to change <i>Examples of qualities and habits that the employee might exhibit include . . . Shows flexibility and willingness to learn new skills for various job roles</i> <ul style="list-style-type: none">• Uses problem-solving and critical-thinking skills to cope with changing circumstances• Modifies own work behavior based on feedback, unsatisfactory outcomes, efficiency, and effectiveness• Displays a "can do" attitude	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3			
10. Demonstrates safety and security regulations and practices <i>Examples of qualities and habits that the employee might exhibit include . . .</i> <ul style="list-style-type: none">• Follows personal safety requirements• Maintains a safe work environment• Demonstrates professional role in an emergency• Follows security procedures• Maintains confidentiality	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3			
11. Applies job-related technology, information, and media <i>Examples of qualities and habits that the employee might exhibit include . . .</i> <ul style="list-style-type: none">• Applies technology effectively in the workplace• Assesses and evaluates information on the job• Assesses training manuals, website, and other media related to the job	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3			
12. Fulfils training or certification requirements for employment <i>Examples of this requirement may include . . .</i> <ul style="list-style-type: none">• Participation in required career-related training and/or educational programs• Passing certification tests to qualify for licensure and/or certification• Participation in company training or orientation• 	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3			
13. Sets personal goals for improvement <i>Examples of this requirement may include . . .</i> <ul style="list-style-type: none">• Setting goals that are specific and measurable• Setting work-related goals that align with the organization's mission• Identifying strategies to reach goals• Reflecting on goal progress to regularly evaluate and modify goals	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3			

OCCUPATIONAL COMPETENCIES (TO BE COMPLETED BY YA EMPLOYER/MENTOR)

Youth apprentices must earn a rating of at least "MEETS EXPECTATIONS" in each competency by the conclusion of the apprenticeship. **Year 1:** Fifteen fundamentals occupational competencies and a minimum of 1 specialty competency. **Year 2:** Fifteen fundamentals occupational competencies and a minimum of 2 specialty competencies different than first year. **At least two evaluations are required each year of a youth apprenticeship.** More columns are included below for those who choose to conduct more frequent reviews.

A specialty competency may be repeated only if the type of construction (residential or commercial) differs from the first year. Employers may substitute out one of these and should write in the competency they are adding. Note that where necessary, skills can be simulated.

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- First Aid Certification
- Occupational Safety Health Administration (OSHA) 10 or 30

Select construction type and circle the applicable year:

- Residential completed during Year: One and/or Two
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ELECTRICAL FUNDAMENTALS – ALL REQUIRED (TO BE COMPLETED BY YA EMPLOYER/MENTOR)

Competency and Rating Criteria	Rating															
	Evaluation															
	Minimum Rating of 2 EACH Check															
Initial	Mid Year 1	Mid Year 2	Final													
1. Follow safety procedures																
<ul style="list-style-type: none">• select and use appropriate clothing and personal protective equipment (PPE)• comply with job site safety and security rules and regulations• maintain a clean and organized work environment• identify and report unsafe job conditions• report injuries and damage to property																
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Competency and Rating Criteria	Occupational Competencies				Rating																											
	Evaluation				Minimum Rating of 2 EACH Check																											
	Initial	Mid Year 1	Mid Year 2	Final	Rating																											
2. Read construction drawings and plans <ul style="list-style-type: none"> relate drawing to job task interpret elements and symbols locate worksite features on a construction plan convert scales measurements to full measurements translate specifications to work requirements 	Year 1 Rating <table> <tr> <td><input type="checkbox"/> 1</td><td><input type="checkbox"/> 1</td><td><input type="checkbox"/> 1</td><td><input type="checkbox"/> 1</td> </tr> <tr> <td><input type="checkbox"/> 2</td><td><input type="checkbox"/> 2</td><td><input type="checkbox"/> 2</td><td><input type="checkbox"/> 2</td> </tr> <tr> <td><input type="checkbox"/> 3</td><td><input type="checkbox"/> 3</td><td><input type="checkbox"/> 3</td><td><input type="checkbox"/> 3</td> </tr> </table> Year 2 Rating <table> <tr> <td><input type="checkbox"/> 1</td><td><input type="checkbox"/> 1</td><td><input type="checkbox"/> 1</td><td><input type="checkbox"/> 1</td> </tr> <tr> <td><input type="checkbox"/> 2</td><td><input type="checkbox"/> 2</td><td><input type="checkbox"/> 2</td><td><input type="checkbox"/> 2</td> </tr> <tr> <td><input type="checkbox"/> 3</td><td><input type="checkbox"/> 3</td><td><input type="checkbox"/> 3</td><td><input type="checkbox"/> 3</td> </tr> </table>								<input type="checkbox"/> 1	<input type="checkbox"/> 1	<input type="checkbox"/> 1	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 2	<input type="checkbox"/> 2	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 3	<input type="checkbox"/> 3	<input type="checkbox"/> 3	<input type="checkbox"/> 1	<input type="checkbox"/> 1	<input type="checkbox"/> 1	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 2	<input type="checkbox"/> 2	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 3	<input type="checkbox"/> 3	<input type="checkbox"/> 3
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3. Interpret symbols and procedures <ul style="list-style-type: none"> explain the role of drawings and specifications identify drawings and symbols used on a construction drawing apply information from drawings in construction activities interpret specifications appearing on construction drawings interpret and convert measurements in terms of actual dimensions explain specifications in terms of work requirements 	Year 1 Rating <table> <tr> <td><input type="checkbox"/> 1</td><td><input type="checkbox"/> 1</td><td><input type="checkbox"/> 1</td><td><input type="checkbox"/> 1</td> </tr> <tr> <td><input type="checkbox"/> 2</td><td><input type="checkbox"/> 2</td><td><input type="checkbox"/> 2</td><td><input type="checkbox"/> 2</td> </tr> <tr> <td><input type="checkbox"/> 3</td><td><input type="checkbox"/> 3</td><td><input type="checkbox"/> 3</td><td><input type="checkbox"/> 3</td> </tr> </table> Year 2 Rating <table> <tr> <td><input type="checkbox"/> 1</td><td><input type="checkbox"/> 1</td><td><input type="checkbox"/> 1</td><td><input type="checkbox"/> 1</td> </tr> <tr> <td><input type="checkbox"/> 2</td><td><input type="checkbox"/> 2</td><td><input type="checkbox"/> 2</td><td><input type="checkbox"/> 2</td> </tr> <tr> <td><input type="checkbox"/> 3</td><td><input type="checkbox"/> 3</td><td><input type="checkbox"/> 3</td><td><input type="checkbox"/> 3</td> </tr> </table>								<input type="checkbox"/> 1	<input type="checkbox"/> 1	<input type="checkbox"/> 1	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 2	<input type="checkbox"/> 2	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 3	<input type="checkbox"/> 3	<input type="checkbox"/> 3	<input type="checkbox"/> 1	<input type="checkbox"/> 1	<input type="checkbox"/> 1	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 2	<input type="checkbox"/> 2	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 3	<input type="checkbox"/> 3	<input type="checkbox"/> 3
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5. Work as a member of a construction team <ul style="list-style-type: none"> offer and request assistance follow company policies and procedures learn from other team members 	Year 1 Rating <table> <tr> <td><input type="checkbox"/> 1</td><td><input type="checkbox"/> 1</td><td><input type="checkbox"/> 1</td><td><input type="checkbox"/> 1</td> </tr> <tr> <td><input type="checkbox"/> 2</td><td><input type="checkbox"/> 2</td><td><input type="checkbox"/> 2</td><td><input type="checkbox"/> 2</td> </tr> <tr> <td><input type="checkbox"/> 3</td><td><input type="checkbox"/> 3</td><td><input type="checkbox"/> 3</td><td><input type="checkbox"/> 3</td> </tr> </table> Year 2 Rating <table> <tr> <td><input type="checkbox"/> 1</td><td><input type="checkbox"/> 1</td><td><input type="checkbox"/> 1</td><td><input type="checkbox"/> 1</td> </tr> <tr> <td><input type="checkbox"/> 2</td><td><input type="checkbox"/> 2</td><td><input type="checkbox"/> 2</td><td><input type="checkbox"/> 2</td> </tr> <tr> <td><input type="checkbox"/> 3</td><td><input type="checkbox"/> 3</td><td><input type="checkbox"/> 3</td><td><input type="checkbox"/> 3</td> </tr> </table>								<input type="checkbox"/> 1	<input type="checkbox"/> 1	<input type="checkbox"/> 1	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 2	<input type="checkbox"/> 2	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 3	<input type="checkbox"/> 3	<input type="checkbox"/> 3	<input type="checkbox"/> 1	<input type="checkbox"/> 1	<input type="checkbox"/> 1	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 2	<input type="checkbox"/> 2	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 3	<input type="checkbox"/> 3	<input type="checkbox"/> 3
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Competency and Rating Criteria	Occupational Competencies				Rating							
	Evaluation				Minimum Rating of 2 EACH Check							
	Initial	Mid Year 1	Mid Year 2	Final	Rating							
6. Prepare work area for construction <ul style="list-style-type: none">remove debrisclean up sitesdispose of waste and hazardous materials	Year 1 Rating <input type="checkbox"/> 1 <input type="checkbox"/> 1 <input type="checkbox"/> 1 <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 2 <input type="checkbox"/> 2 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 3 <input type="checkbox"/> 3 <input type="checkbox"/> 3 Year 2 Rating <input type="checkbox"/> 1 <input type="checkbox"/> 1 <input type="checkbox"/> 1 <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 2 <input type="checkbox"/> 2 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 3 <input type="checkbox"/> 3 <input type="checkbox"/> 3											
7. Select construction materials <ul style="list-style-type: none">consider usefulness and portabilityconsider minimizing costconsider performance goals	Year 1 Rating <input type="checkbox"/> 1 <input type="checkbox"/> 1 <input type="checkbox"/> 1 <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 2 <input type="checkbox"/> 2 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 3 <input type="checkbox"/> 3 <input type="checkbox"/> 3 Year 2 Rating <input type="checkbox"/> 1 <input type="checkbox"/> 1 <input type="checkbox"/> 1 <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 2 <input type="checkbox"/> 2 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 3 <input type="checkbox"/> 3 <input type="checkbox"/> 3											
8. Use hand and light duty tools <ul style="list-style-type: none">wear appropriate personal protective equipment (PPE)select the correct tool for the jobinspect tooloperate the tool safelyperform routine maintenance on hand toolsstore tool	Year 1 Rating <input type="checkbox"/> 1 <input type="checkbox"/> 1 <input type="checkbox"/> 1 <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 2 <input type="checkbox"/> 2 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 3 <input type="checkbox"/> 3 <input type="checkbox"/> 3 Year 2 Rating <input type="checkbox"/> 1 <input type="checkbox"/> 1 <input type="checkbox"/> 1 <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 2 <input type="checkbox"/> 2 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 3 <input type="checkbox"/> 3 <input type="checkbox"/> 3											
9. Use power tools and equipment <ul style="list-style-type: none">wear appropriate personal protective equipment (PPE)select the correct tool for the jobinspect tooloperate the tool safelyperform routine maintenance on power toolsstore tool	Year 1 Rating <input type="checkbox"/> 1 <input type="checkbox"/> 1 <input type="checkbox"/> 1 <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 2 <input type="checkbox"/> 2 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 3 <input type="checkbox"/> 3 <input type="checkbox"/> 3 Year 2 Rating <input type="checkbox"/> 1 <input type="checkbox"/> 1 <input type="checkbox"/> 1 <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 2 <input type="checkbox"/> 2 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 3 <input type="checkbox"/> 3 <input type="checkbox"/> 3											

Competency and Rating Criteria	Occupational Competencies				Rating			
	Evaluation				Minimum Rating of 2 EACH Check			
	Initial	Mid Year 1	Mid Year 2	Final	Rating			
10. Perform materials handling	Year 1 Rating							
• identify materials necessary to complete the task	<input type="checkbox"/> 1	<input type="checkbox"/> 1	<input type="checkbox"/> 1	<input type="checkbox"/> 1				
• conserve resources and materials	<input type="checkbox"/> 2	<input type="checkbox"/> 2	<input type="checkbox"/> 2	<input type="checkbox"/> 2				
• retrieve equipment and materials needed	<input type="checkbox"/> 3	<input type="checkbox"/> 3	<input type="checkbox"/> 3	<input type="checkbox"/> 3				
• load and unload materials, tools, equipment, and supplies								
• lift, position, and secure materials during installation								
11. Install materials per job specifications	Year 1 Rating							
• retrieve equipment and materials needed	<input type="checkbox"/> 1	<input type="checkbox"/> 1	<input type="checkbox"/> 1	<input type="checkbox"/> 1				
• unload materials, tools, equipment, and supplies	<input type="checkbox"/> 2	<input type="checkbox"/> 2	<input type="checkbox"/> 2	<input type="checkbox"/> 2				
• lift, position, and secure materials during installation	<input type="checkbox"/> 3	<input type="checkbox"/> 3	<input type="checkbox"/> 3	<input type="checkbox"/> 3				
	Year 2 Rating							
	<input type="checkbox"/> 1	<input type="checkbox"/> 1	<input type="checkbox"/> 1	<input type="checkbox"/> 1				
	<input type="checkbox"/> 2	<input type="checkbox"/> 2	<input type="checkbox"/> 2	<input type="checkbox"/> 2				
	<input type="checkbox"/> 3	<input type="checkbox"/> 3	<input type="checkbox"/> 3	<input type="checkbox"/> 3				
12. Perform construction measurements	Year 1 Rating							
• select measuring tool	<input type="checkbox"/> 1	<input type="checkbox"/> 1	<input type="checkbox"/> 1	<input type="checkbox"/> 1				
• read measurement accurately	<input type="checkbox"/> 2	<input type="checkbox"/> 2	<input type="checkbox"/> 2	<input type="checkbox"/> 2				
• scale proportions	<input type="checkbox"/> 3	<input type="checkbox"/> 3	<input type="checkbox"/> 3	<input type="checkbox"/> 3				
• convert units of measurement								
• estimate resources, materials, and supplies needed for a project record measurements								
	Year 2 Rating							
	<input type="checkbox"/> 1	<input type="checkbox"/> 1	<input type="checkbox"/> 1	<input type="checkbox"/> 1				
	<input type="checkbox"/> 2	<input type="checkbox"/> 2	<input type="checkbox"/> 2	<input type="checkbox"/> 2				
	<input type="checkbox"/> 3	<input type="checkbox"/> 3	<input type="checkbox"/> 3	<input type="checkbox"/> 3				
13. Maintain a clean and safe work area	Year 1 Rating							
• clean and maintain materials and tools	<input type="checkbox"/> 1	<input type="checkbox"/> 1	<input type="checkbox"/> 1	<input type="checkbox"/> 1				
• clean, organize, and put away items in the work area	<input type="checkbox"/> 2	<input type="checkbox"/> 2	<input type="checkbox"/> 2	<input type="checkbox"/> 2				
• store materials and tools <i>after use</i>	<input type="checkbox"/> 3	<input type="checkbox"/> 3	<input type="checkbox"/> 3	<input type="checkbox"/> 3				
• follow facility procedures for clean-up and shut down								
	Year 2 Rating							
	<input type="checkbox"/> 1	<input type="checkbox"/> 1	<input type="checkbox"/> 1	<input type="checkbox"/> 1				
	<input type="checkbox"/> 2	<input type="checkbox"/> 2	<input type="checkbox"/> 2	<input type="checkbox"/> 2				
	<input type="checkbox"/> 3	<input type="checkbox"/> 3	<input type="checkbox"/> 3	<input type="checkbox"/> 3				

Competency and Rating Criteria	Occupational Competencies				Rating			
					Evaluation			
					Minimum Rating of 2 EACH Check			
Initial	Mid Year 1	Mid Year 2	Final	Rating				
14. Clean up job site <ul style="list-style-type: none"> clean and maintain materials and tools store materials and tools <i>after use</i> follow facility procedures for clean-up and shut down 					Year 1 Rating			
	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 2	<input type="checkbox"/> 3				
	<input type="checkbox"/> 2	<input type="checkbox"/> 2	<input type="checkbox"/> 2	<input type="checkbox"/> 2	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 3
	<input type="checkbox"/> 3	<input type="checkbox"/> 3	<input type="checkbox"/> 3	<input type="checkbox"/> 3	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 3
					Year 2 Rating			
	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 2	<input type="checkbox"/> 3				
	<input type="checkbox"/> 2	<input type="checkbox"/> 2	<input type="checkbox"/> 2	<input type="checkbox"/> 2	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 3
	<input type="checkbox"/> 3	<input type="checkbox"/> 3	<input type="checkbox"/> 3	<input type="checkbox"/> 3	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 3
15. Practice quality craftsmanship <ul style="list-style-type: none"> inspect and test work to determine quality monitor throughout for safety and quality identify impact of building codes on quality of work verify work meets job expectation 					Year 1 Rating			
	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 2	<input type="checkbox"/> 3				
	<input type="checkbox"/> 2	<input type="checkbox"/> 2	<input type="checkbox"/> 2	<input type="checkbox"/> 2	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 3
	<input type="checkbox"/> 3	<input type="checkbox"/> 3	<input type="checkbox"/> 3	<input type="checkbox"/> 3	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 3
					Year 2 Rating			
	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 2	<input type="checkbox"/> 3				
	<input type="checkbox"/> 2	<input type="checkbox"/> 2	<input type="checkbox"/> 2	<input type="checkbox"/> 2	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 3
	<input type="checkbox"/> 3	<input type="checkbox"/> 3	<input type="checkbox"/> 3	<input type="checkbox"/> 3	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 3
Competency Substitute (if you replaced a competency above, note the competency and rating)					Year 1 Rating			
	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 2	<input type="checkbox"/> 3				
	<input type="checkbox"/> 2	<input type="checkbox"/> 2	<input type="checkbox"/> 2	<input type="checkbox"/> 2	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 3
	<input type="checkbox"/> 3	<input type="checkbox"/> 3	<input type="checkbox"/> 3	<input type="checkbox"/> 3	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 3
					Year 2 Rating			
	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 2	<input type="checkbox"/> 3				
	<input type="checkbox"/> 2	<input type="checkbox"/> 2	<input type="checkbox"/> 2	<input type="checkbox"/> 2	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 3
	<input type="checkbox"/> 3	<input type="checkbox"/> 3	<input type="checkbox"/> 3	<input type="checkbox"/> 3	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 3
Comments:								

ELECTRICAL SPECIALTY SKILLS (TO BE COMPLETED BY YA EMPLOYER/MENTOR)

- Year 1: Select 1
- Year 2: Select 1 different specialty skills or type of construction (residential vs. commercial) identified by employer

Occupational Competencies	Rating			
	Evaluation			
	Initial	Mid Year 1	Mid Year 2	Final
Competency and Rating Criteria	Minimum Rating of 2 EACH			
16. Assist with cutting wire, cable, conduit, and raceway, cording and cutting chasses <ul style="list-style-type: none"> • select the proper raceway of cable for the conditions • select the proper raceway size, depending on the conductors to be installed • size outlet(s), pull, and junction boxes 	Check Rating	Year 1 Rating	Year 2 Rating	
	<input type="checkbox"/> 1	<input type="checkbox"/> 1	<input type="checkbox"/> 1	<input type="checkbox"/> 1
	<input type="checkbox"/> 2	<input type="checkbox"/> 2	<input type="checkbox"/> 2	<input type="checkbox"/> 2
	<input type="checkbox"/> 3	<input type="checkbox"/> 3	<input type="checkbox"/> 3	<input type="checkbox"/> 3
17. Assist with pulling wires and attaching wires <ul style="list-style-type: none"> • assist with writing • connect wires to circuit breakers, transformers, and/or other components 	Year 1 Rating	Year 2 Rating		
	<input type="checkbox"/> 1	<input type="checkbox"/> 1	<input type="checkbox"/> 1	<input type="checkbox"/> 1
	<input type="checkbox"/> 2	<input type="checkbox"/> 2	<input type="checkbox"/> 2	<input type="checkbox"/> 2
	<input type="checkbox"/> 3	<input type="checkbox"/> 3	<input type="checkbox"/> 3	<input type="checkbox"/> 3
18. Assist with connecting conductors to switches, receptacles or appliances <ul style="list-style-type: none"> • assist connecting two- and three-way switches • assist connecting normal and ground fault receptacles • assist connecting appliance reciprocals 	Year 1 Rating	Year 2 Rating		
	<input type="checkbox"/> 1	<input type="checkbox"/> 1	<input type="checkbox"/> 1	<input type="checkbox"/> 1
	<input type="checkbox"/> 2	<input type="checkbox"/> 2	<input type="checkbox"/> 2	<input type="checkbox"/> 2
	<input type="checkbox"/> 3	<input type="checkbox"/> 3	<input type="checkbox"/> 3	<input type="checkbox"/> 3

Occupational Competencies				Rating
19. Assist with installation of switches, outlet boxes and fixture boxes <ul style="list-style-type: none"> identify and install the various types of electrical boxes install electrical components according to duplex and Ground Fault circuit Interrupter (GFCI) receptacles, boxes, covers, lamps, wire, solderless connectors, and conduit accurately use color coding for electrical installations 	Year 1 Rating			
	<input type="checkbox"/> 1	<input type="checkbox"/> 1	<input type="checkbox"/> 1	<input type="checkbox"/> 1
20. Assist with installation of feeders and circuits <ul style="list-style-type: none"> select the correct feeder size, type, and overcurrent protection for the application layout electrical systems using materials and devices labeled and listed for project(s) rough-in and secure cables or conduits for branch circuits connect circuits to circuit breaker panels compute the appropriate load calculations and power requirements for the job follow all grounding and bonding requirements 	Year 2 Rating			
	<input type="checkbox"/> 1	<input type="checkbox"/> 1	<input type="checkbox"/> 1	<input type="checkbox"/> 1
Competency Substitute (if you replaced a competency above, note the competency and rating)	Year 1 Rating			
	<input type="checkbox"/> 1	<input type="checkbox"/> 1	<input type="checkbox"/> 1	<input type="checkbox"/> 1
Comments:	Year 2 Rating			
	<input type="checkbox"/> 1	<input type="checkbox"/> 1	<input type="checkbox"/> 1	<input type="checkbox"/> 1

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