

Architecture and Construction Skill Standards Checklist

Student Na	me	YA Student ID Number
YA Coordin	nator	YA Consortium
School Dist	rict	High School Graduation Date
Requir Check	ication Areas Completed: red Skills - For EACH Pathway completed areas Core Skills Safety OSHA 10 Training (Occupational Safety and Health Administration) First Aid Training nstruction Pathway Carpentry Fundamentals Unit* Electrical Fundamentals Unit* Masonry/Concrete Fundamentals Unit* Mechanical/HVAC Fundamentals Unit* Plumbing/Sprinkler Fitting Fundamentals Unit* sign/Pre-Construction Pathway Architectural Drafting Unit - REQUIRED FIRST Architectural Planning Unit	Level One Requirements: Students must complete ALL listed below Check ✓ completed areas Required Skills Minimum of ONE Pathway Unit Minimum of 2 semesters related instruction Minimum of 450 work hours *First Aid and OSHA 10 trainings required only once. Level Two Requirements: Students must complete ALL listed below Check ✓ completed areas Required Skills for EACH pathway Minimum of TWO Pathway Units Minimum of 4 semesters related instruction Minimum of 900 work hours *Units can be completed two times for a level two program
otal ours mployed	Company Name	Telephone Number
	- Company manus	()

Instructions for the Worksite Mentor(s) and Instructor(s)

The Skill Standards Checklist is a list of the competencies (tasks) to be achieved through mentoring and training at the worksite.

- The worksite mentor should rate each competency as the student acquires and demonstrates the skill according to the performance criteria.
- A competency may be revisited and the score raised as the student becomes more proficient at the worksite.
- The mentor and student should go over this checklist together on a regular basis to record progress and plan future steps to complete the required competencies.

I certify that this student has successfully completed the competencies required in my department. Circle your YA role, print and sign your name, and complete with the department name and the date signed.

SIGN this page IF you have been a mentor, trainer, or instructor of this student Mentor/Trainer/Instructor Signature Mentor/Trainer/Instructor Signature **Printed Name Printed Name** Department Department Date Signed **Date Signed** Mentor/Trainer/Instructor Signature Mentor/Trainer/Instructor Signature **Printed Name Printed Name** Department Department **Date Signed** Date Signed Mentor/Trainer/Instructor Signature Mentor/Trainer/Instructor Signature **Printed Name Printed Name** Department Department **Date Signed Date Signed** Mentor/Trainer/Instructor Signature Mentor/Trainer/Instructor Signature Printed Name Printed Name Department Department **Date Signed Date Signed**

Operational Program Notes for Skill Standards Checklist

1. Architecture and Construction Youth Apprenticeship Curriculum

- Definitions:
 - o Competency The worksite skill to be performed
 - o Performance Standards How to assess skill performance as applicable to worksite.
 - Learning Objectives Content knowledge recommended to learn these skills; may be taught by the employer, school district and/or technical college.
 - Skill Standards Checklist The documented list of competencies completed by the YA student.
 - W/S Listed after a skill indicates that skill performance may be learned and assessed at the worksite OR in the classroom in a simulated setting. However, a simulated setting should ONLY be used IF there is no possibility of skill performance at the worksite.
- Performance Standards & Learning Objectives are located in applicable Appendices of the Program Guide for this Youth Apprenticeship.
- 2. ALL Youth Apprentices MUST complete the Required Skills (Core Skills and Safety) competencies for each Pathway they are enrolled in.
 - The Required Skills competencies may be completed concurrently with the specific Pathway process technical competencies.
 - The Required Skills are common skills specific to all Architecture and Construction sub-sectors. These skills are *aligned with* the National States' Career Clusters standards for the Architecture and Construction.

3. Youth Apprenticeship choices (depending on job placement)

- Competencies have been reviewed by the Department of Workforce Development for Child Labor Laws. Contact the Department of Workforce Development's Equal Rights Division/Labor Standards Bureau at (608) 266-6860 for questions regarding child labor laws. SEE Appendix A for special Child Labor Law considerations in this YA Program.
- Students will complete a Minimum Rating in the Required Skills and in one pathway unit for Level ONE Architecture and Construction YA and a Minimum Rating in the Required Skills and two pathways units for a Level TWO Architecture and Construction YA.
- The Department of Workforce Development Occupational Certificate will indicate "Architecture and Construction" attained when the program is completed.

4. Competency Ratings

- Rate the student on the competencies regularly and revisit the competencies with the student periodically to offer the opportunity for an improved rating.
- Arrangements must be made to ensure that the student learns, practices, AND performs each competency even if that competency is not part of their regular job function.
- "Entry Level" criteria should be interpreted to mean "able to do the task satisfactorily."
- "Assist" in front of a skill indicates that the student should perform the skill as indicated in the
 curriculum "while assisting a worksite professional." Training should go beyond "observation
 only" for these skills. It will be up to the employer to determine the criticality of each specific task,
 training completed, and the actual level of supervision required. See curriculum details for
 requirements.

Required Skills

Required of **ALL** Architecture and Construction YA Students Copy this page **FOR EACH** pathway to be completed

CORE SKILLS		n rating of 2 fo		
	1	2	3	
Apply academic knowledge				
Apply career knowledge				
Apply Architecture and Construction industry knowledge				
Communicate effectively				
Take direction and corrective feedback				
6. Act professionally				
7. Demonstrate customer service skills				
Cooperate with others in a team setting				
9. Think critically				
Exhibit regulatory and ethical responsibilities				
11. Use basic technology				
12. Use resources wisely				
SAFETY		Minimum rating of 2 for EACH Check Rating		
	1	2	3	
Follow personal safety requirements				
Maintain a safe work environment				
Demonstrate professional role to be used in an emergency				
CERTIFICATIONS	Completed	Verification	n Signature	
Occupational Safety and Health Administration (OSHA) 10 Training				
2. First Aid Training				

Rating Scale:

- 3 = Exceeds entry level criteria | Requires minimal supervision | Consistently displays this behavior
- 2 = Meets entry level criteria | Requires some supervision | Often displays this behavior
- 1 = Needs improvement | Requires much assistance & supervision | Rarely displays behavior

Check the Appropriate Division:

Residential	☐ Commercial

Carpentry Fundamentals Unit		rating of 2 fo	
	1	2	3
Read blueprints, plans and specifications			
Interpret symbols and procedures			
3. Identify job prep needs and develop job task plan			
4. Execute job prep needs as a coordinated effort			
5. Select tools and materials			
6. Use hand tools and light duty tools			
7. Operate tools and equipment safely			
8. Assist with the installation of materials per job specifications			
9. Demonstrate accuracy in measuring using various instruments			
10. Maintain clean and safe work environment			
11. Clean up work area			
12. Practice quality craftsmanship			
Please select a minimum of one competency from below	(13-16) to	complete	
13. Assist with rough framing or forming			
14. Assist with finish framing or forming			
15. Assist with interior finishing			
16. Assist with exterior finishing			

Rating Scale:

- 3 = Exceeds entry level criteria | Requires minimal supervision | Consistently displays this behavior
- 2 = Meets entry level criteria | Requires some supervision | Often displays this behavior 1 = Needs improvement | Requires much assistance & supervision | Rarely displays behavior

Check the Appropriate Division:

Residential	☐ Commercial

Electrical Fundamentals Unit		rating of 2 fo	
	1	2	3
Read blueprints, plans and specifications			
Interpret symbols and procedures			
3. Identify job prep needs and develop job task plan			
4. Execute job prep needs as a coordinated effort			
5. Select tools and materials			
6. Use hand tools and light duty tools			
7. Operate tools and equipment safely			
8. Assist with the installation of materials per job specifications			
9. Demonstrate accuracy in measuring using various instruments			
10. Maintain clean and safe work environment			
11. Clean up work area			
12. Practice quality craftsmanship			
 Assist with cutting wire, cable, conduit and raceway, cording and cutting chasses 			
14. Assist with pulling wires and attaching wires			
15. Assist with connecting conductors to switches, receptacles or appliances			
16. Assist with installation of switches, outlet boxes and fixture boxes			
17. Assist in rough-in feeders and circuits			

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- 2 = Meets entry level criteria | Requires some supervision | Often displays this behavior
- 1 = Needs improvement | Requires much assistance & supervision | Rarely displays behavior

Check the Appropriate Division:

Residential	☐ Commercial

Masonry/Concrete Fundamentals Unit		rating of 2 fo	
	1	2	3
Read blueprints, plans and specifications			
2. Interpret symbols and procedures			
3. Identify job prep needs and develop job task plan			
4. Execute job prep needs as a coordinated effort			
5. Select tools and materials			
6. Use hand tools and light duty tools			
7. Operate tools and equipment safely			
8. Assist with the installation of materials per job specifications			
Demonstrate accuracy in measuring using various instruments			
10. Maintain clean and safe work environment			
11. Clean up work area			
12. Practice quality craftsmanship			
Please select a minimum of two competencies from below (13-17) to complete			
13. Assist with cutting brick and block			
 Assist with depositing, spreading, consolidating, and striking of concrete in a form 			
15. Lay masonry units to job specification			
16. Assist with selecting the correct types of materials for the job			
17. Perform volume estimates for concrete quantity requirements			

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- 2 = Meets entry level criteria | Requires some supervision | Often displays this behavior
- 1 = Needs improvement | Requires much assistance & supervision | Rarely displays behavior

Check the Appropriate Division:

☐ Residential ☐ Commercial

Mechanical/HVAC Fundamentals Unit		rating of 2 fo	
	1	2	3
Read blueprints, plans and specifications			
2. Interpret symbols and procedures			
3. Identify job prep needs and develop job task plan			
4. Execute job prep needs as a coordinated effort			
5. Select tools and materials			
6. Use hand tools and light duty tools			
7. Operate tools and equipment safely			
8. Assist with the installation of materials per job specifications			
Demonstrate accuracy in measuring using various instruments			
10. Maintain clean and safe work environment			
11. Clean up work area			
12. Practice quality craftsmanship			
Please select a minimum of two competencies from below (13-17) to complete			
Assist with basic equipment problem identification and diagnosis for heating and cooling systems			
 Assist with basic equipment repair for heating systems and cooling systems 			
15. Set up and fabricate metals			
16. Assist with the installation of fabricated parts			
17. Transfer measurements into a workable drawing			

Rating Scale:

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- 2 = Meets entry level criteria | Requires some supervision | Often displays this behavior
- 1 = Needs improvement | Requires much assistance & supervision | Rarely displays behavior

Construction Pathway Check the Appropriate Division:

Residential	☐ Commercial

Plumbing/Sprinkler Fitting Fundamentals Unit	Minimum rating of 2 for EAC Check Rating		
	1	2	3
Read blueprints, plans and specifications			
Interpret symbols and procedures			
3. Identify job prep needs and develop job task plan			
4. Execute job prep needs as a coordinated effort			
5. Select tools and materials			
6. Use hand tools and light duty tools			
7. Operate tools and equipment safely			
Assist with the installation of materials per job specifications			
Demonstrate accuracy in measuring using various instruments			
10. Maintain clean and safe work environment			
11. Clean up work area			
12. Practice quality craftsmanship			
13. Assist with testing and maintenance of fixtures			

Rating Scale:

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- 2 = Meets entry level criteria | Requires some supervision | Often displays this behavior
 1 = Needs improvement | Requires much assistance & supervision | Rarely displays behavior

Design/Pre-Construction Pathway

Architectural Drafting Unit – REQUIRED FIRST		Minimum rating of 2 for EACH Check Rating		
	1	2	3	
Interpret technical drawings				
2. Use measuring devices accurately				
3. Organize databases, files and drawings				
4. Reproduce documents and plans				
5. Compile site measurements and other data				
Use architectural drafting software				
7. Develop 2D (orthographic) view drawings				
8. Develop 3D view models				
9. Dimension drawings				
10. Apply lettering and basic annotation to drawings				
11. Prepare working drawings				
12. Assist to research building codes and site requirements				
13. Participate on an architectural design project				

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- 2 = Meets entry level criteria | Requires some supervision | Often displays this behavior
- 1 = Needs improvement | Requires much assistance & supervision | Rarely displays behavior

Design/Pre-Construction Pathway

Architectural Planning U	nit	Minimum rating of 2 for EACH Check Rating		
		1	2	3
1. Draw a site plan				
2. Draw sectional and elev	ration views			
3. Draw a floor plan				
4. Develop a stair section	drawing			
5. Draw a floor system and	foundation plan			
6. Draw a framing plan				
7. Draw a roof framing pla	n			
8. Develop sustainable/co	nservation elements into a design			
9. Review completed arch	tectural plans and documents			
10. Revise drawings				
11. Construct a Bill of Mate	rials			
12. Assist to develop archite	ectural detail schedules			
13. Assist to coordinate arc	hitectural project activities			

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Additional Certifications, Training, Seminars and Projects

Please list in detail any additional certifications earned, any training and seminars attended, and/or any projects completed during the course of the Architecture and Construction Youth Apprenticeship.

Description					
Notes/Comments					
Date Completed	Mentor/Trainer/Instructor Signature	Date Signed			
Description					
Notes/Comments					
Date Completed	Mentor/Trainer/Instructor Signature	Date Signed			
Description					
Notes/Comments					
Date Completed	Mentor/Trainer/Instructor Signature	Date Signed			
Other Notes or Comments					