WISCONSIN— YOUTH APPRENTICESHIP

Architectural Drafting and Planning

Youth Apprenticeship

ARCHITECTURAL DRAFTING AND PLANNING

Youth apprentices develop the skills needed to read, edit, and create architectural drawings. In the second year, youth apprentices expand their skills in developing specific residential and/or commercial design pieces.

Length of Apprenticeship: One or two years

OCCUPATIONAL COMPETENCIES

Youth apprentices work with a job site mentor to demonstrate the following competencies.

Year 1 and Year 2: Youth apprentices must complete a **total of 10** competencies. **Nine** must be from the list below. If necessary, employers can substitute **1** competency with another occupationally appropriate skill. That skill should be added to the competency list for assessment.

Architectural Drafting Competencies Year 1	Architectural Planning Competencies Year 2
Interpret technical drawings	Create a floor plan
2. Use measuring devices	2. Draw a site plan
3. Perform file management tasks	3. Draw a floor system and foundation plan
4. Copy documents and plans	4. Draw sectional views
5. Research building codes and site	5. Draw elevation views
requirements	6. Develop a stair section drawing
6. Compile site data	7. Revise drawings
7. Use design software	8. Create interior elevations
8. Develop drawings such as plans, elevations,	9. Create schedules
and sections	10. Create presentation drawings
9. Apply basic annotation to drawings	
10. Dimension drawings	

POST-SECONDARY PATHWAY OPPORTUNITIES

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

- Architectural Design and Technology
- Interior Design
- Architectural Structural Engineering Technology



Architectural Drafting and Planning

Youth Apprenticeship

ON-THE-JOB LEARNING PERFORMANCE STANDARDS GUIDE (TO BE COMPLETED BY YA EMPLOYER/MENTOR)

YOUTH APPRENTICE INFORMATION

TOOTH APPRENTICE INFO	MIVIATION					
Youth Apprentice Name						
YA Coordinator YA Consortium						
School District		High School Graduation Date				
REQUIREMENTS						
Level One Requirements						
Year 1 Competency checklisEmployability Skills checklisRelated instruction equal to	outh apprentices must complete ALL the items listed below. Check completed areas. ☐ Year 1 Competency checklist ☐ Employability Skills checklist (in this OJL Guide) or the DPI Employability Skills Certificate ☐ Related instruction equal to 1 high school credit or at least 3 college credits ☐ Minimum of 450 work hours					
Level Two Requirements						
Youth apprentices must complete A	ALL the items liste	d below. Check co	ompleted areas.			
Year 2 Competency checklis						
Employability Skills checklis	•	•	•			
Related instruction equal to	_	dits or at least 6 o	college credits			
☐ Minimum of 900 work hour	S					
HOURS						
Record the hours the youth apprer	itice worked.					
Total Hours Employed Company Name Telephone Number						

RELATED INSTRUCTION

YEAR 1: Indicate which related instruction courses the youth apprentice completed.

Dual Credit	Course Number and Title	Credits	Instruction Provider

YEAR 2: Indicate which related instruction courses the youth apprentice completed.

Dual Credit	Course Number and Title	Credits	Instruction Provider

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

Youth apprentices must demonstrate key employability skills.

The DWD YA program employability skills requirement may be attained and demonstrated through two processes. (See options listed below.) Employability skills must be completed for every year a student is in the program. The DPI Employability Skills Certificate may be counted as meeting one of those two years, provided the certificate is earned in the same year the student is enrolled in youth apprenticeship or they can complete the YA Employability Skills in the OJL. The Employability Skills Certificate must be obtained through the DPI.

1.	If a student has successfully completed a Wisconsin Department of Public Instruction (DPI)
	State-Certified Cooperative Education, Co-Op Employability Skill certification then they have me
	the YA Employability Skills requirement for that year. A copy of the student's DPI Co-Op
	Employability Skill Certificate must be maintained on file with their YA regional consortium.
	☐ Earned Wisconsin Employability Skills Certificate (checked if applicable) or,
2.	Completed and rated "Employability Skills" through this YA OJL guide as described below.

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

The following skills are required of all youth apprentices.

	Employability Skills		Rating	
		Minimur	n Rating of 2	2 for EACH
	Competency and Rating Criteria		Check Ratin	g
		1	2	3
1.	Develops positive work relationships with others.		Year 1 Ratir	ıg
	Examples of qualities and habits that the employee might exhibit			
	include		Year 2 Ratir	ıg
	 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			

Employability Skills	Rating
2. Communicates effectively with others	Year 1 Rating
Examples of qualities and habits that the employee might exhibit include	
 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 	Year 2 Rating
3. Collaborates with others	Year 1 Rating
Examples of qualities and habits that the employee might exhibit	
include Works affectively in teams with people of diverse backgrounds	Year 2 Rating
 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 o 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 Maintains composure under pressure Examples of qualities and habits that the employee might exhibit include Uses critical thinking to determine the best options or outcomes 	Year 1 Rating Year 2 Rating
 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 	
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 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 Demonstrates integrity 	Year 1 Rating
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 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 Demonstrates integrity Examples of qualities and habits that the employee might exhibit 	Year 1 Rating Year 2 Rating

	Employability Skills		Rating	
6. Perfori	ms quality work	,	Year 1 Ratin	g
· ·	les of qualities and habits that the employee might exhibit			
include	· · · · rries out written and verbal directions accurately	,	Year 2 Ratin	g
	mpletes work efficiently and effectively			
	rforms calculations accurately			
	nserves resources, supplies, and materials to minimize costs			
	d environmental impact			
	es equipment, technology, and work strategies to improve orkflow			
	plies problem-solving strategies to improve productivity			
	heres to worksite regulations and practices			
• Ma	aintains an organized work area			
7. Provid	es quality goods or services (internal and external)	,	Year 1 Ratin	g
· ·	les of qualities and habits that the employee might exhibit			
include • Sho	· · · · ows support for the organizational goals and principles by		Year 2 Ratin	g
	n personal actions			
	splays a respectful and professional image to customers	_		
	splays an enthusiastic attitude and desire to take care of			
	stomer needs eks out ways to increase customer satisfaction			
	oduces goods to workplace specifications			
	sauces goods to morriplace specimentoris			
8. Shows	initiative and self-direction	,	Year 1 Ratin	g
Exampl	les of qualities and habits that the employee might exhibit	П		
include			Year 2 Ratin	g
	oritizes and carries out responsibilities without being told			
	sponds with enthusiasm and flexibility to handle tasks that ed immediate attention			
	flects on any unsatisfactory outcome as an opportunity to			
• Im	proves personal performance by doing something different or			
	ferently alyzes how own actions impact the overall organization			
	pports own action with sound reasoning and principles			
-	lances personal activities to minimize interference with work			
res	sponsibilities			

Employability Skills	Rating
9. Adapts to change	Year 1 Rating
Examples of qualities and habits that the employee might exhibit include	
Shows flexibility and willingness to learn new skills for various	Year 2 Rating
job roles	
 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	
10. Demonstrates safety and security regulations and practices	Year 1 Rating
Examples of qualities and habits that the employee might exhibit	
includeFollows personal safety requirements	Year 2 Rating
Maintains a safe work environment	
Demonstrates professional role in an emergency	
Follows security procedures	
Maintains confidentiality	
11. Applies job-related technology, information, and media	Year 1 Rating
Examples of qualities and habits that the employee might exhibit include	
 Applies technology effectively in the workplace 	Year 2 Rating
Assesses and evaluates information on the job	
Assesses training manuals, website, and other media related to	
the job	
12. Fulfills training or certification requirements for employment	Year 1 Rating
Examples of this requirement may includeParticipation in required career-related training and/or	
educational programs	Year 2 Rating
 Passing certification tests to qualify for licensure and/or 	
certification	
 Participation in company training or orientation 	
13. Sets personal goals for improvement	Year 1 Rating
Examples of this requirement may include	
 Setting goals that are specific and measurable 	Year 2 Rating
 Setting work-related goals that align with the organization's 	
mission	
Identifying strategies to reach goals Poffesting on and progress to reach goals The strategies of the strategies to reach goals. The strategies of the strategies to reach goals.	
 Reflecting on goal progress to regularly evaluate and modify goals 	
50ais	

YEAR 1 OCCUPATIONAL COMPETENCIES

(TO BE COMPLETED BY YA EMPLOYER/MENTOR)

Youth apprentices must complete a **total of 10 competencies**. **Nine** must be from the list below. If necessary, employers can substitute **1** competency with another occupationally appropriate skill. That skill should be added to the competency list for assessment.

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 and supervision | Rarely displays this behavior

If any competencies are rated "1" on the final performance review checklist that is submitted to WI DWD it is considered a failed checklist.

Architectural Drafting

	Occupational Competencies		Ratings		
	Competency and Rating Criteria		Minimum Rating of 2 for EACH Check Rating		
		1	2	3	
1.	 Interpret technical drawings locate information in the drawing identify lines, views, symbols, and representations interpret dimensions and scale 				
2.	 Use measuring devices select appropriate measuring device calibrate device if needed obtain an accurate reading record measurements using proper symbols utilize a metric scale 				
3.	 Perform file management tasks follow the company's organizational system for both paper and digital files search for files find and open files copy files rename or add filenames to files 				
4.	 Copy documents and plans operate copy machines operate printers, plotters, and scanners 				

	Occupational Competencies		Ratings		
	· · ·	Minimur	n Rating of 2	for EACH	
	Competency and Rating Criteria		Check Rating		
		1	2	3	
5.	Research building codes and site requirements				
	 determine categories of applicable codes required by site, 				
	systems, and structures				
	locate resources to conduct code and site research				
	 look up codes, zoning ordinances and regulations to determine the applicable requirements for a project 				
	determine the applicable requirements for a project				
6.	Compile site data				
	develop a site base drawing				
	 document property lines 				
	analyze the grade				
	 investigate setbacks and other site restrictions 				
7.	Use design software		Ш		
	demonstrate view use in design softwaredraw objects that match given designs				
	 import/export drawings to/from various graphic formats 				
	 convert an existing hard copy drawing to an electronic 				
	format				
	select appropriate scale				
	 apply naming conventions, line types, and object 				
	management to drawing				
	apply notes and/or leaders to drawing				
	 apply lettering, fonts, line thickness and type 				
8.	Develop drawings such as plans, elevations, and sections				
	select proper views				
	 utilize view range properties to show pertinent information 				
	 use model lines and details lines to supplement two 				
	dimensional views as necessary				
	 show hidden features and centerlines as required 				
	utilize sheet and title block features				
9.	Apply basic annotation to drawings				
	apply common rules for font size				
	place dimension and extension lines				
	apply adequate drawing notations				
	use appropriate abbreviations				
	 place notes appropriately 				

Occupational Competencies	Ratings		
Competency and Rating Criteria	Minimum Rating of 2 for EACH Check Rating		
	1	2	3
 Dimension drawings dimensions are drawn with the appropriate line leaders of the correct weight dimensions are placed according to convention dimensions supply all needed measurements 			
Competency Substitute (if you replaced a competency above, note the competency and rating)			
Comments:			

YEAR 2 OCCUPATIONAL COMPETENCIES

(TO BE COMPLETED BY YA EMPLOYER/MENTOR)

Year two youth apprentices must complete a total of **10 competencies**. **Nine** must be from the list below. If necessary, employers can substitute **1** competency with another occupationally appropriate skill. That skill should be added to the competency list for assessment. If any competencies are rated "1" on the final performance review checklist that is submitted to WI DWD it is considered a failed checklist.

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 and supervision | Rarely displays this behavior

If any competencies are rated "1" on the final performance review checklist that is submitted to WI DWD it is considered a failed checklist.

Architectural Planning

	Occupational Competencies		Ratings		
Minimum Rating o		Rating of 2	2 for EACH		
	Competency and Rating Criteria		Check Rating		
		1	2	3	
1.	Create a floor plan				
	 lay out exterior limits of structure 				
	 block out exterior and interior walls with appropriate thickness 				
	 indicate openings in exterior and interior walls 				
	draw door and window sizes				
	 draw door and window sizes draw other floor plan features 				
	add dimensions, notes and room labels				
	 draw material symbols 				
	indicate scale of drawing and view title				
	indicate north arrow				
2.	Draw a site plan				
	 compile site measurements and other data 				
	 analyze measurement, service, utility, zoning and coding, 				
	and ecosystem data with worksite professional				
	select size and scale for plan				
	identify parcel features				
	 indicate modifications of any existing site elements 				
	 place proposed structure on site with favorable 				
	orientation considering site-specific information				
	• estimate the amount of cut and/or fill necessary to build a structure				
	• estimate the increase in storm water runoff from a site				
	indicate scale of drawing and view title				
	indicate north arrow				

	Occupational Competencies		Ratings	
	Competency and Rating Criteria	Minimum Rating of 2 for EACH Check Rating		
		1	2	3
3.	 Draw a floor system and foundation plan contains structural components sized for the design includes dimensions, scale, notes, labels, and view title indicates symbols and references indicates north arrow 			
4.	 Draw sectional views indicate finished floor level(s) indicate finished ceiling level(s) detail windows and doors components letter wall and roof finishes, roof pitch, chimney, decks, and porches add dimensions, scale, notes, labels, and view title indicate true width of walls indicate all openings in interior or exterior walls indicate typical sections of standard built-in features note wall materials or finish indicate fixtures, built-ins, trim and molding, and utilities 			
5.	 Draw elevation views draw grade line project construction lines from plans indicate finished floor level(s) draw windows and doors draw roof outline letter wall and roof finishes, roof pitch, chimney, decks, windows, and porches add dimensions, scale, notes, labels, and view title indicate all openings in exterior walls indicate typical sections note exterior wall materials or finish show property line show mechanical items 			
6.	 Develop a stair section drawing draw finished floor and finished ceiling lines heights calculate and lay out risers, treads, and landings indicate framing around stairs identify materials used to construct stairs draw trim features dimension total rise and run indicate headroom clearance and stairwell opening add dimensions, notes, and labels 			

Occupational Competencies		Ratings	
	Minimum Rating of 2 for EACH		for EACH
Competency and Rating Criteria		Check Rating	
	1	2	3
7. Revise drawings			
 make modifications to drawing 			
track revisions			
8. Create interior elevations			
place elevation markers			
 crop and individualize elevations 			
 tag interior design features and finishes 			
 tag plumbing fixtures 			
tag lighting			
9. Create schedules			
layout window schedules			
layout door schedules			
10. Create presentation drawings			
 rendering shows landscape components 			
 rendering shows interior and exterior surface textures 			
 rendering shows shadows 			
 rendering contains camera views to depict 3D model 			
presentation contains color			
presentation shows legend			
Competency Substitute (if you replaced a competency above, note the competency and rating)			
Comments:	1		

WISCONSIN— YOUTH APPRENTICESHIP

Post-Program Completion Survey

Youth Apprenticeship

YA POST-PROGRAM COMPLETION SURVEY: EMPLOYER FEEDBACK

Employers complete the following information. YA Coordinators will enter this into the Post-Program Completion Survey.

YA Employer Post-Program Completion Questions			
Will you offer or have you offered the Youth Apprentice a continuing position with your company?	☐ Yes ☐ No		
If continuing position offered to youth apprentice, did they accept?	☐ Yes ☐ No		
If yes, please answer the questions below:			
Was the offer for full time or part time work?	Full-time Part-time		
Title of the position offered:			
What is the wage of the continuing employment offer?			
If applicable, will the youth apprentice advance to a Registered Apprenticeship?			

YA POST-PROGRAM COMPLETION SURVEY - COMPLETED BY YA CONSORTIUM

The <u>Post-Program Completion Survey</u> form is to be provided to each student completing the Youth Apprenticeship program to capture information on the student's plans after leaving the program. This **form should be completed by the Youth Apprenticeship Coordinator** to capture information from all high school seniors and their employers after successful completion of the Youth Apprenticeship Program.

The form should be completed during the final meeting between the student, mentor, and Youth Apprenticeship Coordinator, when the final checklist or On-the-Job Learning (OJL) Guide is filled out and signed. Information captured on this form must be entered online using the Bureau of Apprenticeship Standards Electronic Records System (BASERS).

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