

Environmental Systems: Basic and Advanced Water Resources

Youth Apprenticeship

ENVIRONMENTAL SYSTEMS: BASIC AND ADVANCED WATER RESOURCES

Environmental systems youth apprentices learn core skills needed by the water industry to promote protection, improvement, and sustainability of water resources.

Length of Apprenticeship: One or Two years

COMPETENCIES

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

Year 1: Youth apprentices must complete a **total of 11** competencies. **Ten** 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.

Year 2: Youth apprentices must complete a **total of 12** competencies. **Eleven** 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.

YEAR 1 Co	mpetencies		YEAR 2 Competencies
1. Interpret work order	. 1	1.	Assist with report submissions
2. Create work order	2	2.	Prepare chemicals
3. Monitor operating co	onditions, meters,	3.	Add chemicals to systems
pumps, and gauges		4.	Perform start-up and shut down of pumps
4. Collect operational of	lata		and equipment
5. Use operations softw	vare (such as SCADA,	5.	Inspect operational equipment
PLC, DBs)	6	6.	Troubleshoot basic operations
6. Perform basic facility	/ maintenance	7.	Analyze lab results
7. Collect samples	8	8.	Maintain schedules, communication, and
8. Measure weight			documentation
9. Measure volume	g	9.	Perform preventive maintenance (PM)
10. Perform calculations	and conversions	10.	Calibrate equipment
11. Conduct basic lab te	sts 1	11.	Troubleshoot and repair equipment
	1	12.	Analyze operational data for
			productivity/trends

REGISTERED APPRENTICESHIP BRIDGING OPPORTUNITIES

The following Registered Apprenticeship is available in this area:

• Wastewater Treatment Plant Operator

POST-SECONDARY PATHWAY OPPORTUNITIES

There are several post-secondary pathway opportunities in this area. Following is partial list.

- Water Quality Technician
- Environmental Engineering



Environmental Systems: Basic and Advanced Water Resources

Youth Apprenticeship

ON-THE-JOB LEARNING PERFORMANCE STANDARDS GUIDE

YOUTH APPRENTICE INFORMATION

Youth Apprentice Name						
YA Coordinator	YA Co	onsortium				
School District	High S	School Graduation Date				
REQUIREMENTS						
Level One Requirements Youth apprentices must complete A ☐ Year 1 Competency checklist ☐ Employability Skills checklist ☐ Related instruction equal to ☐ Minimum of 450 work hours	t t (in this OJL Guide) or th 1 high school credit or a	e DPI Employability Skills Certificate				
Level Two Requirements Youth apprentices must complete ALL the items listed below. Check completed areas. Year 2 Competency checklist Employability Skills checklist (in this OJL Guide) or the DPI Employability Skills Certificate Related instruction equal to 2 high school credits or at least 6 college credits Minimum of 900 work hours						
HOURS						
Record the hours the youth appren	itice worked.					
Total Hours Employed	Company Name	Telephone Number				

CAREER PREPARATION Youth apprentices must complete one of the following during Youth Apprenticeship participation: □ 1. Student is participating in a local or regional career pathway*. Identify the pathway below:

For more information contact the <u>Wisconsin Department of Public Instruction</u>. Additional help may be found on the WI DPI <u>Wisconsin Pathways – Regional Career Pathways</u> and <u>DPI Career Clusters and Pathways</u> web pages.

*Local and Regional career pathways as defined by the WI DPI means that a student is participating in or has completed at least one CTE class in a cluster pathway sequence and has completed at least one of the other career pathway components: instructional related course, work-based learning, dual college credit, and/or career and technical student organization.

 \square 2. Student has completed one of the following certificates during their YA program or possess current certification earned previously.

A copy of the certificate must be uploaded with the completed checklist. Select the certificate from the list below.

\square Leadership	Certificate	(DPI)
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- ☐ Wisconsin Department of Natural Resources: Municipal Waterworks Operator Certification
- ☐ Wisconsin Department of Natural Resources: Small Water System Operator Certification
- $\hfill\square$ Wisconsin Department of Natural Resources: Wastewater Operator Certification
- ☐ Other certificates identified by the Career and Technical Education (CTE) Approved Certifications List related to this occupational field (or related to this occupation) dwd.wisconsin.gov/det/cteincentive/ (YA certificates excluded)

Title of Certification:

☐ 3. Student is participating in a <u>Dual Enrollment Course</u> connected to any postsecondary education provider including UW System, Wisconsin Association of Independent Colleges and Universities (WAICU), and any of the 16 Wisconsin Technical Colleges (WTCS).

College Name:

College Course Title:

Course Number:

For more information on Dual Enrollment opportunities, please click on one of the below resources:

- WTCS
- WAICU
- UW System connect with the college of choice.

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-Base 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.

5 1 /24 1 5: 1	
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

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.

- If a student has successfully completed a Wisconsin Department of Public Instruction (DPI)
 State-Certified Cooperative Education, <u>Co-Op Employability Skill certification</u> then they have met
 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.
- Exceeds Expectations: Exceeds entry-level criteria; requires minimal supervision; consistently displays this behavior
 Meets Expectations: Meets entry-level criteria; requires some supervision; often displays this behavior
 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	Kating		
			n Rating of 2	
	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	ng
	 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			

2.	Communicates effectively with others	,	Year 1 Ratin	ıg
	Examples of qualities and habits that the employee might exhibit			
	include	,	Year 2 Ratin	ng .
	Adjust the communication approach for the target audience,			
	purpose, and situation to maximize impact			
	Organizes messages/information in a logical and helpful manner Specifical and helpful manner			
	Speaks clearly and writes legibly Added behaviors to allow active listonias			
	Models behaviors to show active listeningApplies what was read to actual practice			
	Asks appropriate questions for clarity			
	Asks appropriate questions for clarity			
3.	Collaborates with others	•	Year 1 Ratin	ng
	Examples of qualities and habits that the employee might exhibit			
	include		Year 2 Ratin	ng —
	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 to work through differences of critical in a constructive manner to achieve a			
	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			
	maine.			
4.	Maintains composure under pressure	•	Year 1 Ratin	ng
	Examples of qualities and habits that the employee might exhibit			
	include		Year 2 Ratin	
	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			
5.	Demonstrates integrity		Year 1 Ratin	ng
	Examples of qualities and habits that the employee might exhibit			
	include	•	Year 2 Ratin	ıg
	 Carries our 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			
	,			

6.	Performs quality work	,	Year 1 Ratin	ng
	Examples of qualities and habits that the employee might exhibit			
	include	,	Year 2 Ratin	ng
	Carries out written and verbal directions accuratelyCompletes work efficiently and effectively			
	 Completes work efficiently and effectively Preforms 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			
7.	Provides quality goods or services (internal and external)	,	Year 1 Ratir	ησ
, .	Examples of qualities and habits that the employee might exhibit	П		' ъ
	include		Year 2 Ratin	
	 Shows support for the organizational goals and principles by 			<u>'</u> 5 □
	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			
	1 Toddees goods to workplace specifications			
8.	Shows initiative and self-direction	•	Year 1 Ratin	ng
8.	Examples of qualities and habits that the employee might exhibit		Year 1 Ratin	ng
8.	Examples of qualities and habits that the employee might exhibit include		Year 1 Ratir	
8.	Examples of qualities and habits that the employee might exhibit include • Prioritizes and carries out responsibilities without being told			
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10. Demonstrates safety and security regulations and practices	•	Year 1 Ratin	ıg
Examples of qualities and habits that the employee might exhibit			
include	•	Year 2 Ratin	ng .
Follows personal safety requirements			
Maintains a safe work environment			
 Demonstrates professional role in an emergency 			
 Follows security procedures 			
Maintains confidentiality			
11 Applies job related technology information and modia		Voor 1 Potin	
11. Applies job-related technology, information, and media		Year 1 Ratin	
Examples of qualities and habits that the employee might exhibit include			
Applies technology effectively in the workplace		Year 2 Ratin	ig
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 Ratin	ng .
Examples of qualities and habits that the employee might exhibit			
include		Year 2 Ratin	
 Participation in required career-related training and/or 	П		<u>.</u> П
educational programs			
 Passing certification tests to qualify for licensure and/or 			
certification			
 Participation in company training or orientation 			
13. Sets personal goals for improvement		Year 1 Ratin	
Examples of qualities and habits that the employee might exhibit include			
 Setting goals that are specific and measurable 		Year 2 Ratin	ıg
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			
0			

YEAR 1 COMPETENCIES

Youth apprentices must complete a total of 11 competencies. Ten 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

		Minimun	n Rating of 2	for EACH
	Competency and Rating Criteria		Check Ratin	g
		1	2	3
1.	Interpret work order			
	use work order to plan work			
	 identify procedures to be completed 			
	follow work order to complete the work			
2.	Create work order			
	 work order is entered into the computer 			
	 work order includes all the key information 			
	• work order is accurate			
3.	Monitor aparating conditions, motors, number and gauges			
э.	Monitor operating conditions, meters, pumps, and gauges			Ш
	operate the flow measuring devicemonitor alarm systems			
	follow site-specific alarm procedures			
	identify alarm locationsrespond to alarms			
	document results			
	• document results			
4.	Collect operational data			
	obtain operational data			
	 collect and store samples for testing 			
	download data from meters and data loggers to computer			
	databases			
	 perform physical measurements and process control 			
	calculations			
5.	Use operations software (such as SCADA, PLC, DBs)			
	locate file	_		
	add and edit data			
	query data			
	verify data			
	 monitor processes 			
	·			

	Competency and Rating Criteria		Minimum Rating of 2 for EACH Check Rating		
	, , ,	1	2	3	
6.	 Perform basic facility maintenance don appropriate personal protective equipment (PPE) perform cleaning use appropriate cleaning solutions 				
7.	 Collect samples wear proper personal protective equipment (PPE) setup sampling equipment and materials setup field testing equipment, materials, etc. (test kits) identify proper method and container for sample label sample or container collect required amount of sample store sample as required preserve chain of custody 				
8.	 Measure weight select the appropriate equipment and materials for the measurement calculate the accuracy and standard deviation of your values record measurements in appropriate units and significant figures 				
9.	 Measure volume select the appropriate container for measuring volume measure using graduated cylinders measure using serological pipettes measure using micro pipettors record measurements in appropriate units and amount of significant figures 				
10	 Perform calculations and conversions select appropriate formula perform the calculation verify accuracy convert flow rates record calculations or conversions 				

Competency and Rating Criteria		Minimum Rating of 2 for EACH Check Rating		
competency and nating enteria	1	2	3	
 11. Conduct basic lab tests select and setup equipment and supplies prepare reagents, solutions, and/or buffers prepare quality control samples as needed prepare sample for testing test the sample record results clean glassware and instruments segregate, recycle, or dispose of waste following facility guidelines apply standard precautions document testing results 				
Competency Substitute (if you replaced a competency above, note the competency and rating)				
Comments:				

YEAR 2 COMPETENCIES

Year two youth apprentices must complete a **total of 12** competencies. **Eleven** 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

Competency and Rating Criteria	Minimum Rating of 2 for EACH Check Rating		
	1	2	3
 1. Assist with report submissions obtain data and information complete forms obtain authorizations as indicated submit reports 			

Competency and Rating Criteria		Minimum Rating of 2 for EACH Check Rating		
	, , -	1	2	3
2.	 Prepare chemicals perform calculations and conversions as needed determine the concentration and amount required mix the proper concentration of solutions from solids and/or liquids test and adjust pH or concentration if required label and store prepared item as required per protocol document chemical preparation as required clean up 			
3.	 Add chemicals to systems confirm chemical required verify chemical is properly mixed and within expiration date transport chemical to system site for addition to system add chemical to system site document chemical addition as required transport, store, and dispose of materials as indicated 			
4.	 Perform start-up and shut down of pumps and equipment check equipment fluid, air, pressure levels as required set equipment settings as required monitor start-up as required to ensure correct operation shut-down equipment safely identify any process or equipment maintenance concerns take corrective action to report and correct maintenance concerns 			
5.	 Inspect operational equipment inspect equipment for function and damage assist to troubleshoot and repair equipment problems take corrective actions lockout/tag out equipment that is inoperable document inspection 			
6.	 Troubleshoot basic operations regularly review quality control indicators for water treatment operations assist to analyze lab results assist to analyze operational data for productivity/trends take corrective actions for item out of compliance following required protocol adjust processes for water treatment as required (add chemicals, adjust equipment rates, etc.) document operational correction 			

Competency and Rating Criteria		Minimum Rating of 2 for EACH Check Rating		
Competency and Nating Citteria	1	2	3	
 7. Analyze lab results collect data and results from testing select and use statistical tools to analyze and synthesize data create tables and graphs to organize data query and extract information from data interpret graphs and the trends in data use tools to manipulate data creating models, reports, plans, processes, or projects from data provided document analysis process and tools used draw conclusions based on analysis with worksite professional assist to troubleshoot operations and adjust processes based on lab results 				
8. Maintain schedules, communication, and documentation • update schedules as maintenance is completed • communicate maintenance and repair needs clearly • use the correct reporting formats for documentation and communication • document maintenance and repair activities accurately • maintenance is documented clearly and completely				
 9. Perform preventive maintenance (PM) ensure that equipment is properly labeled and pulled from production use follow appropriate Lockout/Tag Out procedures prior to performing PM follow all safety requirements and wear appropriate personal protective equipment (PPE) as required document preventative actions completed 				
 Calibrate equipment clean and adjust instruments before calibrating calibrate tools and instruments accurately and correctly promptly re-calibrate tools out of calibration re-qualify tools and instruments sent out for recalibration or repairs label tools and equipment that have been calibrated document all calibration activities 				

Competency and Rating Criteria		Minimum Rating of 2 for EACH Check Rating		
competency and nating criteria	1	2	3	
 11. Troubleshoot and repair equipment ensure that equipment is properly labeled and pulled from production use (Lock Out/Tag Out) follow all safety requirements and wear appropriate personal protective equipment (PPE) as required take appropriate readings using meters and testing equipment determine the cause of the problems reported assist with basic repair assist to re-qualify equipment document testing, evaluation, repair, and requalification 				
 12. Analyze operational data for productivity/trends obtain questionable or out of compliance data and reports define question/problem to be evaluated select data analysis tool collect additional data if needed organize data using quality tools analyze lab results and other operational data assist to troubleshoot operations and adjust processes based on analysis 				
Competency Substitute (if you replaced a competency above, note the competency and rating)				
Comments:				

RELATED INSTRUCTION

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

Course Title	Credits	Location

YEAR 2 (If applicable): Indicate which related instruction courses the youth apprentice completed:

Course Title	Credits	Location

WISCONSIN—YOUTH APPRENTICESHIP

Post-Program Completion Survey

Youth Apprenticeship

YA POST-PROGRAM COMPLETION SURVEY

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. The form should be filled out during the final meeting between the student, mentor, and Local Youth Apprenticeship Coordinator, when the final checklist if filled out and signed. Information captured on this form must be entered online using the Youth Apprenticeship Online Data Application (YODA) System.

DWD is an equal opportunity employer and service provider. If you have a disability and need assistance with this information, please dial 7-1-1 for Wisconsin Relay Service. Please contact the Division of Employment and Training at 888-258-9966 and press 6 to request information in an alternate format, including translated to another language.

