

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

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

(TO BE COMPLETED BY YA CONSORTIUM)

YOUTH APPRENTICE INFORMATION

Youth Apprentice Name				
YA Coordinator YA Consortium				
School District	High School Graduation Date			

REQUIREMENTS

Level One Requirements

Youth 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 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 apprentice 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.

 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.

3	<i>Exceeds Expectations:</i> Exceeds entry-level criteria; requires minimal supervision; consistently displays this behavior
2	<i>Meets Expectations:</i> 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			
Competency and Rating Criteria		Minimum Rating of 2 for EACH Check Rating		
	1	2	3	
1. Develops positive work relationships with others.	,	Year 1 Ratir	Ig	
Examples of qualities and habits that the employee might exhibit				
include	,	Year 2 Ratir	g	
 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 Ratin	g
	Examples of qualities and habits that the employee might exhibit			
	include		Year 2 Ratin	g
	 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			
3.	Collaborates with others		Year 1 Ratin	g
	Examples of qualities and habits that the employee might exhibit			
	include	, L_J	Year 2 Ratin	σ
	 Works effectively in teams with people of diverse backgrounds 			' <u>5</u> □
	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			
4				-
4.	Maintains composure under pressure		Year 1 Ratin	lg
	Examples of qualities and habits that the employee might exhibit include			
	Uses critical thinking to determine the best options or outcomes		Year 2 Ratin	g
	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	g
	Examples of qualities and habits that the employee might exhibit			
	include		Year 2 Ratin	g
	 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			

Employability Skills	Rating
6. Performs quality work	Year 1 Rating
Examples of qualities and habits that the employee might exhibit include	
Carries out written and verbal directions accurately	Year 2 Rating
Completes work efficiently and effectively	
Performs calculations accurately	
 Conserves resources, supplies, and materials to minimize cos and environmental impact 	ts
 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) Examples of qualities and habits that the employee might exhibit	Year 1 Rating
include	
• Shows support for the organizational goals and principles by	Year 2 Rating
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 	
8. Shows initiative and self-direction	Year 1 Rating
Examples of qualities and habits that the employee might exhibit	Year 1 Rating
Examples of qualities and habits that the employee might exhibit include	Year 1 Rating Vear 2 Rating
 Examples of qualities and habits that the employee might exhibit include Prioritizes and carries out responsibilities without being told 	Year 2 Rating
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Employability Skills		Rating	
10. Demonstrates safety and security regulations and practices	,	Year 1 Ratir	ng
Examples of qualities and habits that the employee might exhibit			
include	,	Year 2 Ratir	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 media		Year 1 Ratir	
Examples of qualities and habits that the employee might exhibit include			
 Applies technology effectively in the workplace 		Year 2 Ratir	<u>ig</u>
 Assesses and evaluates information on the job 			
 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 Ratir	ng
Examples of this requirement may include			
Participation in required career-related training and/or	,	Year 2 Ratir	<u></u> וס
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 Ratir	ng
Examples of this requirement may include			
Setting goals that are specific and measurable Setting work related goals that align with the organization's		Year 2 Ratir	<u>ig</u>
 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 OCCUPATIONAL COMPETENCIES

(TO BE COMPLETED BY YA EMPLOYER/MENTOR)

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

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

	Occupational Competencies Ratings				
	Commenten en en el Portiona Oritorria		Minimum Rating of 2 for EACH		
	Competency and Rating Criteria		Check Rating		
1	Internet work and a	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 operating conditions, meters, pumps, and				
	gauges				
	 operate the flow measuring device 				
	monitor alarm systems				
	follow site-specific alarm procedures				
	identify alarm locations				
	respond to alarms				
	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				

Occupational Competencies		Ratings	
	Minimum Rating of 2 for EACH		
Competency and Rating Criteria	Check Rating		
	1	2	3
 5. Use operations software (such as SCADA, PLC, DBs) locate file add and edit data query data verify data monitor processes 			
 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 			

Occupational Competencies		Ratings	
Competency and Rating Criteria	Minimum Rating of 2 for EACH Check Rating		
	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:	1		

YEAR 2 OCCUPATIONAL COMPETENCIES

(TO BE COMPLETED BY YA EMPLOYER/MENTOR)

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

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

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

Occupational Competencies		Ratings	
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 			

Occupational Competencies		Ratings	
	Minimum Rating of 2 for E		for EACH
Competency and Rating Criteria	Check Rating		
	1	2	3
 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 			
 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 			

Occupational Competencies		Ratings	
	Minimum	Rating of 2	for EACH
Competency and Rating Criteria	(Check Rating	
	1	2	3
10. 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			
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:			



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
If continuing position offered to youth apprentice, did they accept?	Yes
If yes, please answer the questions below:	
Was the offer for full time or part time work?	Full-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 Youth Apprenticeship Online Data Application (YODA) System.

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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.

