Plant Fundamentals



Youth Apprenticeship

PLANT FUNDAMENTALS

Plant Fundamentals introduces apprentices to key skills in plant related apprenticeships: crops, landscape, and floral/greenhouse.

Length of Apprenticeship: One year. Youth apprentices can enter the Crops, Landscape or Greenhouse/Floral youth apprenticeship for a second year.

COMPETENCIES

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

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.

Competencies

- 1. Perform job preparation
- 2. Prepare planting spaces
- 3. Perform plant installation
- 4. Perform plant maintenance
- 5. Assist to install and maintain watering and/or irrigation systems
- 6. Apply compost and other fertilizers as allowed **NOTE**: Only certified professionals can prepare, load, apply, and handle pesticide(s)
- 7. Manage inventory
- 8. Assist to maintain agribusiness records
- 9. Gather supplies and equipment
- 10. Sharpen hand tools

REGISTERED APPRENTICESHIP BRIDGING OPPORTUNITIES

The following Registered Apprenticeship is available in this area:

Organic Vegetable Farm Manager

POST-SECONDARY PATHWAY OPPORTUNITIES

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

- Agribusiness Science and Technology Agronomy
- Horticulture



Plant Fundamentals

Youth Apprenticeship
ON-THE-JOB LEARNING PERFORMANCE STANDARDS GUIDE

YOUTH APPRENTICE INFORMATION

Youth Apprentice Name				
YA Coordinator		YA Consortium		
School District		High School Gra	duation Date	
REQUIREMENTS				
Level One Requirements				
Youth apprentices must complet	e ALL the items liste	ed below. Check c	ompleted areas.	
\square Competency checklist				
\square Employability Skills check	list (in this OJL Guide	e) or the DPI Emp	loyability Skills Certificate	
\square Related instruction equal	to 1 high school cre	dit or at least 3 co	ollege credits	
\square Minimum of 450 work ho	urs			
HOURS				
Record the hours the youth appr	entice worked.		_	
Total Hours Employed	Company Name		Telephone Number	

CAREER PREPARATION

Youth apprentices must complete <u>one</u> of the following during Youth Apprenticeship participation:
\square 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 curren certification earned previously.
A copy of the certificate must be uploaded with the completed checklist. Select the certificate from the list below. BASF Plant Science 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 WAICH

Page | 3

■ 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.

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.
- 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		
Competency and Rating Criteria	Minimum Rating of 2 for EACH Check Rating		
	1	2	3
 Develops positive work relationships with others. Examples of qualities and habits that the employee might exhibit include 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			
		n Rating of	2 for EACH	
Competency and Rating Criteria		Check Ratir		
, , , , , , , , , , , , , , , , , , , ,	1			
 Communicates effectively with others Examples of qualities and habits that the employee might exhibit include Adjust the communication approach for the target audience purpose, and situation to maximize impact Organizes messages/information in a logical and helpful man 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 Examples of qualities and habits that the employee might exhibit include Works effectively in teams with people of diverse backgrour regardless of sex, race, ethnicity, nationality, sexuality, religit political views, and abilities Shares responsibility for collaborative work and decision ma Uses the problem-solving process to work 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 timel manner 	nds on, king			
 4. Maintains composure under pressure Examples of qualities and habits that the employee might exhibit include Uses critical thinking to determine the best options or outco 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 	mes			
 Demonstrates integrity Examples of qualities and habits that the employee might exhibit include Carries our responsibilities in an ethical, legal and confidenti manner Responds to situations in a timely manner Takes personal responsibility to correct problems Models behaviors that demonstrate self-discipline, reliability and dependability 	al			

	Employability Skills	Rating		
		Minimum Rating of 2 for EAC		2 for EACH
	Competency and Rating Criteria	(Check Ratin	ıg
		1	2	3
6.	Performs quality work Examples of qualities and habits that the employee might exhibit include			
	 Carries out written and verbal directions accurately 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 			
7.	 Maintains an organized work area Provides quality goods or services (internal and external) Examples of qualities and habits that the employee might exhibit include 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 			
8.	 Shows initiative and self-direction Examples of qualities and habits that the employee might exhibit include 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 			
9.	 Adapts to change Examples of qualities and habits that the employee might exhibit include Shows flexibility and willingness to learn new skills for various 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 			

Employability Skills	Rating		
. ,		n Rating of 2	2 for EACH
Competency and Rating Criteria		Check Ratin	
, , , , , , , , , , , , , , , , , , ,	1	2	3
 10. Demonstrates safety and security regulations and practices Examples of qualities and habits that the employee might exhibit include • 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 Examples of qualities and habits that the employee might exhibit include Applies technology effectively in the workplace 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 Examples of qualities and habits that the employee might exhibit include 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 			
 13. Sets personal goals for improvement Examples of qualities and habits that the employee might exhibit include 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 			

COMPETENCIES

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

			Minimum Rating of 2 for EACH		
	Competency and Rating Criteria		Check Ratin	g	
		1	2	3	
1.	Perform job preparation				
	• gather tools				
	 examine the site for safety impacts 				
	 identify underground utilities that have been located and marked (Digger's Hotline) 				
	explain the markings and lines				
2.	Prepare planting spaces				
	 mark out and measure beds 				
	 remove sticks, stones and plant debris 				
	• till soil				
	 level site 				
	 amend soil/media for planting 				
3.	Perform plant installation	П	П		
٠.	space plants appropriately				
	 plant at the appropriate depth 				
	 cover plants with soil/media 				
	water plants				
	water plants				
4.	Perform plant maintenance				
	 water plants and seeds as needed 				
	 pull excess seedlings 				
	 control weeds 				
	 cover plants as required 				
	 monitor/treat plants for insects and disease using organic 				
	methods NOTE: Only certified professionals can prepare,				
	load, apply, and handle pesticide(s)				

Competency and Pating Critoria		Minimum Rating of 2 for EACH Check Rating		
	Competency and Rating Criteria			
_	Assist to install and maintain watering and /or insigntion	1	2	3
Э.	Assist to install and maintain watering and/or irrigation systems		Ш	
	review the irrigation plan			
	determine water pressure			
	check flowrate			
	locate watering heads			
	 establish sprinkler circuits and install valves 			
	 install and connect pipes, tubing, and watering heads 			
	install and connect pipes, tubing, and watering heads			
6.	Apply compost and other fertilizers as allowed NOTE: Only			
	certified professionals can prepare, load, apply, and handle pesticide(s)			
	don personal protective equipment (PPE)			
	observe surroundings for impact on application			
	determine fertilizer application rate			
	• fertilize plants			
	clean equipment			
	 discard or store excess fertilizer as required 			
	uistaru or store excess rertinzer as requireu			
7.	Manage inventory			
	 verify accuracy of incoming items 			
	 stock or place inventory 			
	 perform inventory counts 			
	document inventory			
8.	Assist to maintain agribusiness records			
	• complete forms			
	 file forms and records 			
	 add/edit/verify/query electronic data 			
	 maintain filing system 			
9.	Gather supplies and equipment			
	 obtain landscaping plan list of materials 			
	• identify the proper tools and equipment needed for the			
	job			
	 locate required supplies and equipment 			
	 stock cars and vehicles with necessary supplies 			
	 load all materials for transport 			

	Minimum Rating of 2 for EACH			
Competency and Rating Criteria		Check Rating		
	1	2	3	
 Sharpen hand tools don personal protection equipment (PPE) clean the tool sharpen all cutting edges remove burrs test the sharpness 				
lubricate tools				
Competency Substitute (if you replaced a competency above, note the competency and rating)				
Comments:				

RELATED INSTRUCTION

Indicate which related instruction course(s) the youth apprentice completed:

Course Title	Credits	Location



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.

