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.

REQUIRED COMPETENCIES

Youth apprentices must become proficient in both general employability and occupation-specific competencies. All of these, and examples of how each can be demonstrated, are found in the following pages. Below are 10 occupational competencies that must be learned for this occupation. Employers may substitute out one of these and should write in the competency they are adding. Where necessary, skills can be simulated. Youth apprentices must be evaluated on these competencies at least two times each year of their apprenticeship.

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:

- Nursery Manager
- 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



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ON-THE-JOB LEARNING PERFORMANCE STANDARDS GUIDE

YOUTH APPRENTICE INFORMATION

TOOTH APPRENTICE INFORMATION	
Youth Apprentice Name	
YA Coordinator	
YA Consortium	
School District	
SIGNATURES	
The On-the-Job Learning Performance Standards	Guide includes a list of competencies youth
apprentices learn through mentoring and training	·
Instructions for the Worksite Employers/Mentors	
The state of the s	loyer / mentor, school-based or YA coordinator on a
, ,,	progress and plan future steps to ensure completion ased / YA coordinator, and the apprentice sign below.
	over/Mentor
1 st Evaluation (Required)	2 nd Evaluation (Required)
Employer/Mentor Signature	Employer/Mentor Signature
Employer/Mentor	Employer/Mentor
Business/Company	Business/Company
Date Signed	Date Signed
3 rd Evaluation (Optional)	4th Evaluation (Optional)
Employer/Mentor Signature	Employer/Mentor Signature
Employer/Mentor	Employer/Mentor
Business/Company	Business/Company
Date Signed	Date Signed

School-Based and/or YA Coordinator

1st Evaluation (Required)

2nd Evaluation (Required)

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

3rd Evaluation (Optional)

4th Evaluation (Optional)

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

1st Evaluation (Required)

2nd Evaluation (Required)

Youth Apprentice Signature	Youth Apprentice Signature
Youth Apprentice	Youth Apprentice
School District / High School	School District / High School
Date Signed	Date Signed

3rd Evaluation (Optional)

4th Evaluation (Optional)

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)

All youth apprentices must demonstrate the key employability skills listed below in order to complete the YA program. They do so by earning at least a "Meets Expectation" rating in each. **At least two evaluations are required each year of a youth apprenticeship.** More columns are included below for those who choose to conduct more frequent reviews.

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

	Employability Skills		Rati	ing	
	Competency and Rating Criteria	Initial	Mid Year 1	Mid Year 2	Final
1.	 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 	☐ 1 ☐ 2 ☐ 3			
2.	 Communicates effectively with others 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 	☐ 1 ☐ 2 ☐ 3			
3.	 Collaborates with others Examples of qualities and habits that the employee might exhibit include 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 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 	☐ 1 ☐ 2 ☐ 3			

Employability Skills		Rat	ing	
Competency and Rating Criteria	Initial	Mid Year 1	Mid Year 2	Final
 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 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 	☐ 1	☐ 1	☐ 1	☐ 1
	☐ 2	☐ 2	☐ 2	☐ 2
	☐ 3	☐ 3	☐ 3	☐ 3
 Demonstrates integrity Examples of qualities and habits that the employee might exhibit include 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 	☐ 1	☐ 1	□ 1	□1
	☐ 2	☐ 2	□ 2	□2
	☐ 3	☐ 3	□ 3	□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 Performs 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 	☐ 1	□ 1	□1	□1
	☐ 2	□ 2	□2	□2
	☐ 3	□ 3	□3	□3
 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 	☐ 1	☐ 1	☐ 1	☐ 1
	☐ 2	☐ 2	☐ 2	☐ 2
	☐ 3	☐ 3	☐ 3	☐ 3

Employability Skills	Rating			
Competency and Rating Criteria	Initial	Mid	Mid	Final
	- IIIICIGI	Year 1	Year 2	
 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 	☐ 1	☐ 1	☐ 1	☐ 1
	☐ 2	☐ 2	☐ 2	☐ 2
	☐ 3	☐ 3	☐ 3	☐ 3
 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 	☐ 1	☐ 1	☐ 1	☐ 1
	☐ 2	☐ 2	☐ 2	☐ 2
	☐ 3	☐ 3	☐ 3	☐ 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 	☐ 1	☐ 1	☐ 1	□1
	☐ 2	☐ 2	☐ 2	□2
	☐ 3	☐ 3	☐ 3	□3
 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 	☐ 1	☐ 1	☐ 1	☐ 1
	☐ 2	☐ 2	☐ 2	☐ 2
	☐ 3	☐ 3	☐ 3	☐ 3
 12. Fulfills training or certification requirements for employment Examples of this requirement may 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 	☐ 1	☐ 1	☐ 1	□1
	☐ 2	☐ 2	☐ 2	□2
	☐ 3	☐ 3	☐ 3	□3
 13. Sets personal goals for improvement Examples of this requirement may 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 	☐ 1	☐ 1	☐ 1	□1
	☐ 2	☐ 2	☐ 2	□2
	☐ 3	☐ 3	☐ 3	□3

OCCUPATIONAL COMPETENCIES (TO BE COMPLETED BY YA EMPLOYER/MENTOR)

Youth apprentices must earn a rating of at least "MEETS EXPECTATIONS" in each competency by the conclusion of the apprenticeship. A total of 10 competencies, 9 must be from the list below. If necessary, employers can substitute one competency with another occupationally appropriate skill. That skill should be added to the competency list for assessment. At least two evaluations are required each year of a youth apprenticeship. More columns are included below for those who choose to conduct more frequent reviews.

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

	Occupational Competencies		Rat	ing	
	•		Evalu	ation	
		Minim	um Ratin	g of 2 for	EACH
	Competency and Rating Criteria		Check	Rating	
		Initial	Mid	Mid	Final
		IIIICIGI	Year 1	Year 2	111101
1.	Perform job preparation	□ 1	□ 1	□ 1	
	• gather tools	☐ 2	□ 2	□ 2	□ 2
	examine the site for safety impacts	□ 3	□ 3	□3	□3
	identify underground utilities that have been located and marked				
	(Digger's Hotline)				
	explain the markings and lines				
2.	Prepare planting spaces	□ 1	□ 1	□ 1	□ 1
	 mark out and measure beds 	□ 2	□2	□2	□2
	 remove sticks, stones and plant debris 				
	• till soil				
	• level site				
	amend soil/media for planting				
3.	Perform plant installation	□ 1	□ 1	□ 1	□ 1
	space plants appropriately	□ 2	□2	□2	□2
	 plant at the appropriate depth 		 □ 3	 □3	
	 cover plants with soil/media 				
	water plants				
4.	Perform plant maintenance	□ 1	□ 1	□ 1	□ 1
	water plants and seeds as needed	□ 2	□ 2	□ 2	□ 2
	• pull excess seedlings	□ 3	□ 3	□3	□ 3
	• 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).				

Occupational Competencies		Rat	ing	
		Evalu	ation	
	Minim	um Ratin	g of 2 for	EACH
Competency and Rating Criteria		Check	Rating	
	Initial	Mid	Mid	Final
	iiiiciai	Year 1	Year 2	Tillai
5. Assist to install and maintain watering and/or irrigation systems	□ 1	□ 1	□ 1	□ 1
review the irrigation plan	□ 2	□ 2	□ 2	□ 2
determine water pressure	□ 3	□ 3	□ 3	Пз
check flowrate				
locate watering heads				
establish sprinkler circuits and install valves				
 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) 	<u></u>	<u> </u>	<u></u>	<u></u>
observe surroundings for impact on application	3			3
determine fertilizer application rate				
fertilize plants				
clean equipment				
discard or store excess fertilizer as required				
alsourd of store exocos for timeer as required				
7. Manage inventory	□ 1	□ 1	□ 1	□ 1
verify accuracy of incoming items	□ 2	□2	□ 2	□2
stock or place inventory	 3	_ 3	_ 	_ 3
perform inventory counts				
document inventory				
8. Assist to maintain agribusiness records	□ 1	□ 1	□ 1	□1
complete forms				 2
file forms and records				□ 3
add/edit/verify/query electronic data				
maintain filing system				
9. Gather supplies and equipment	□ 1	□ 1	□ 1	□ 1
obtain landscaping plan list of materials	□ 2	□ 2	□ 2	□ 2
identify the proper tools and equipment needed for the job	□ 3	□ 3	□ 3	□ 3
locate required supplies and equipment				
stock cars and vehicles with necessary supplies				
load all materials for transport				
10. Sharpen hand tools	□ 1	□1	□ 1	□1
don personal protection equipment (PPE)	☐ <u>2</u>	☐ 2		□ - □ 2
clean the tool			□ ² □ 3	□3
sharpen all cutting edges				
remove burrs				
test the sharpness				
lubricate tools				

Occupational Competencies	Rating			
	Evaluation			
	Minimum Rating of 2 for EACH			
Competency and Rating Criteria	Check Rating			
	Initial	Mid	Mid	Final
	miciai	Year 1	Year 2	
Competency Substitute (if you replaced a competency above, note the	□ 1	□ 1	□ 1	□ 1
competency and rating)	□ 2	□ 2	□ 2	□ 2
	□ 3	□ 3	□ 3	□ 3
Comments:				
Comments.				

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