

**2018/2019 Student Competency Record  
Horticulture Sciences  
8034 - 36 weeks**

<b>Student</b>	<b>School Year</b>
<b>School</b>	<b>Teacher Signature</b>

Traditional letter or numerical grades do not provide adequate documentation of student achievement in competency-based education; therefore, the Virginia Standards for CBE require a recording system to provide information about competencies achieved to employer, student-employee, and teacher. The Student Competency Record provides a means for keeping track of student progress. Ratings are assigned by the teacher for classroom competency achievement and by the teacher-coordinator in conjunction with the training sponsor when competence is evaluated on the job.

Tasks/competencies designated "Required" are considered essential statewide and are required of all students. In some courses, all tasks/competencies have been identified as required. Tasks/competencies marked "Optional" are considered optional; they and/or additional tasks/competencies may be taught at the discretion of the school division. Tasks/competencies marked with an asterisk (\*) are considered sensitive, and teachers should obtain approval by the school division before teaching them. Student competency records should be kept as long as the student is enrolled in the school and for five years after the student graduates/leaves the school.

**Note: Students with an Individualized Education Program (IEP) or an Individualized Student Alternative Education Plan (ISAEP) will be rated, using the following scale, only on the competencies identified in their IEP or ISAEP.**

Students will be expected to achieve a **satisfactory rating** (one of the three highest marks) on the Student Competency Record (SCR) rating scale on at least 80% of the required (essential) competencies in a CTE course.

**...RATING SCALE...**

- 1 - Can teach others**
- 2 - Can perform without supervision**
- 3 - Can perform with limited supervision**
- 4 - Can perform with supervision**
- 5 - Cannot perform**

8034 36 weeks	Horticulture Sciences TASKS/COMPETENCIES		Date	Rating
<b>Demonstrating Workplace Readiness Skills: Personal Qualities and People Skills</b>				
Required	1	Demonstrate positive work ethic.		
Required	2	Demonstrate integrity.		
Required	3	Demonstrate teamwork skills.		
Required	4	Demonstrate self-representation skills.		
Required	5	Demonstrate diversity awareness.		
Required	6	Demonstrate conflict-resolution skills.		
Required	7	Demonstrate creativity and resourcefulness.		
<b>Demonstrating Workplace Readiness Skills: Professional Knowledge and Skills</b>				
Required	8	Demonstrate effective speaking and listening skills.		
Required	9	Demonstrate effective reading and writing skills.		
Required	10	Demonstrate critical-thinking and problem-solving skills.		
Required	11	Demonstrate healthy behaviors and safety skills.		
Required	12	Demonstrate an understanding of workplace organizations, systems, and climates.		
Required	13	Demonstrate lifelong-learning skills.		
Required	14	Demonstrate job-acquisition and advancement skills.		
Required	15	Demonstrate time-, task-, and resource-management skills.		
Required	16	Demonstrate job-specific mathematics skills.		
Required	17	Demonstrate customer-service skills.		
<b>Demonstrating Workplace Readiness Skills: Technology Knowledge and Skills</b>				
Required	18	Demonstrate proficiency with technologies common to a specific occupation.		
Required	19	Demonstrate information technology skills.		
Required	20	Demonstrate an understanding of Internet use and security issues.		
Required	21	Demonstrate telecommunications skills.		
<b>Examining All Aspects of an Industry</b>				
Required	22	Examine aspects of planning within an industry/organization.		
Required	23	Examine aspects of management within an industry/organization.		
Required	24	Examine aspects of financial responsibility within an industry/organization.		

Required	25	Examine technical and production skills required of workers within an industry/organization.		
Required	26	Examine principles of technology that underlie an industry/organization.		
Required	27	Examine labor issues related to an industry/organization.		
Required	28	Examine community issues related to an industry/organization.		
Required	29	Examine health, safety, and environmental issues related to an industry/organization.		
<b>Addressing Elements of Student Life</b>				
Required	30	Identify the purposes and goals of the student organization.		
Required	31	Explain the benefits and responsibilities of membership in the student organization as a student and in professional/civic organizations as an adult.		
Required	32	Demonstrate leadership skills through participation in student organization activities, such as meetings, programs, and projects.		
Required	33	Identify Internet safety issues and procedures for complying with acceptable use standards.		
<b>Gaining an Overview of the Environmental Horticulture Industry</b>				
Required	34	Follow safety procedures for personal protection in the horticulture industry.		
Required	35	Research career opportunities in the horticulture industry.		
<b>Exploring Leadership Skills and FFA Membership</b>				
Required	36	Identify benefits and responsibilities of FFA membership.		
Required	37	Identify types and benefits of participation in supervised agricultural experiences (SAE).		
Optional	38	Apply for an FFA award, based on an SAE.		
<b>Applying Science to Horticulture</b>				
Required	39	Describe the structure of plant taxonomy.		
Required	40	Analyze plant anatomy and physiology.		
Required	41	Describe how environmental factors affect plant growth.		
Required	42	Describe plant propagation options.		
Required	43	Demonstrate plant propagation.		
<b>Investigating the Floriculture Industry</b>				
Required	44	Identify a variety of greenhouse structures.		
Required	45	Identify greenhouse lighting options.		
Required	46	Identify greenhouse heating and cooling options.		

Required	47	Identify greenhouse irrigation methods.		
Required	48	Identify floriculture crops.		
Required	49	Produce a floriculture crop.		
Required	50	Design interior plantings.		
Required	51	Design floral arrangements.		
<b>Investigating the Landscaping Industry</b>				
Required	52	Identify landscape plants.		
Required	53	Design landscapes.		
Optional	54	Construct landscapes.		
Required	55	Maintain landscapes.		
<b>Investigating the Turf Grass Industry</b>				
Required	56	Identify the segments and effects of the turf grass industry.		
Required	57	Describe the procedures for establishing turf.		
Optional	58	Maintain turf.		
<b>Producing Fruits and Vegetables</b>				
Required	59	Identify vegetable crops.		
Required	60	Plan and prepare a vegetable garden site.		
Optional	61	Plant vegetable plantings.		
Required	62	Identify fruits.		
Required	63	Plan a fruit garden.		
Optional	64	Plant fruit crops.		
<b>Managing Pests</b>				
Required	65	Identify greenhouse and garden pests.		
Required	66	Interpret pesticide labels.		
Required	67	Interpret safety data sheets (SDSs).		
Required	68	Identify safety issues in pest management.		
Required	69	Identify pest control programs for greenhouse and landscape crops.		
Required	70	Apply the principles of Integrated Pest Management (IPM).		
<b>Locally Developed Tasks/Competencies</b>				
