2018/2019 Student Competency Record
Agriscience and Technology
8004-36 - 36 weeks

Student	**School Year**
School	**Teacher Signature**

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

8004-36 36 weeks	Agriscience and Technology TASKS/COMPETENCIES		Date	Rating
	Demonstrating Workplace Readiness Skills: Personal Qualities and People Skills			
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.		
	Demonstrating Workplace Readiness Skills: Professional Knowledge and Skills			
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.		
	Demonstrating Workplace Readiness Skills: Technology Knowledge and Skills			
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.		
	Addressing Elements of Student Life			
Required	22	Identify the purposes and goals of the student organization.		
Required	23	Explain the benefits and responsibilities of membership in the student organization as a student and in professional/civic organizations as an adult.		

Required	24	Demonstrate leadership skills through participation in student organization activities, such as meetings, programs, and projects.		
Required	25	Identify Internet safety issues and procedures for complying with acceptable use standards.		
	Exploring Leadership Skills and FFA Membership			
Required	26	Identify benefits and responsibilities of FFA membership.		
Optional	27	Participate in supervised agricultural experiences (SAE).		
Optional	28	Apply for an FFA award, based on an SAE.		
Required	29	Explore career opportunities related to agriculture.		
Required	30	Describe leadership characteristics as they relate to agriculture.		
	Becoming Oriented to Agriscience Technology			
Required	31	Identify class rules, safety precautions, and procedures.		
Required	32	Explore new technologies in agriculture/agriscience.		
Required	33	Explore agriscience and technology.		
Required	34	Identify the components of an agriculture/agriscience research project.		
Required	35	Practice safety procedures in performing experiments.		
Required	36	Perform an agriculture/agriscience experiment.		
	Understanding Global Agriculture			
Required	37	Explain exports, imports, tariffs, and other related terms.		
Required	38	Explain the relationship of global trade to Virginia agriculture.		
	Understanding Agricultural Business			
Required	39	Identify the role of agribusiness in agriculture.		
Required	40	Define *free enterprise* and *economy.*		
Required	41	Identify characteristics of an entrepreneur.		
	Using Hand Tools and Agricultural Power Equipment			
Required	42	Demonstrate safety practices.		
Required	43	Demonstrate measuring skills.		
Required	44	Interpret plans for construction of an agriculture project.		
Required	45	Identify portable power equipment, hand tools, and accessories.		
Optional	46	Demonstrate the use of portable power equipment, hand tools, and accessories.		
Optional	47	Demonstrate woodworking skills.		

Required	48	Explain the basic principles of electricity.		
Optional	49	Perform basic electrical wiring skills.		
Optional	50	Shape metal.		
Required	51	Explain the arc welding process.		
Optional	52	Operate arc welding equipment.		
Required	53	Explain operation principles of small engines.		
	Exploring Animal Science			
Required	54	Identify breeds of companion animals.		
Required	55	Identify breeds of livestock animals.		
Required	56	Identify equipment used in the care of companion and/or livestock animals.		
Required	57	Evaluate types of companion and/or livestock animal feed.		
Required	58	Demonstrate health care and maintenance practices of companion and/or livestock animals.		
	Exploring Natural Resources			
Required	59	Identify the importance of natural resource management.		
Optional	60	Determine the volume and value of timber.		
Required	61	Identify Virginia trees as saw timber, pulpwood, and/or ornamentals.		
Optional	62	Evaluate soil texture and fertility.		
	Exploring Horticultural Sciences			
Required	63	Identify common garden, landscape, and interior plants.		
Required	64	Explore principles of floral design.		
Required	65	Explore principles of landscape design.		
Required	66	Identify common horticultural and landscape equipment.		
	Exploring Food Science			
Required	67	Explore the food industry as it relates to agriculture, agriscience, and agribusiness.		
Required	68	Explore food-borne illnesses.		
Required	69	Describe methods of food processing and preservation.		
Required	70	Explain food labels.		

	Locally Developed Tasks/Competencies			
