Virginia CTE

Unmanned Aircraft Systems (2023)

	20 Demonstrate professionalism. 20
	21 Demonstrate reading and writing skills. 21
	22 Demonstrate workplace safety. 22
Examining All Aspects of an Industry	23 Examine aspects of planning within an industry/organization. 23
	24 Examine aspects of management within an industry/organization. 24
	25 Examine aspects of financial responsibility within an industry/organization. 25
	26 Examine technical and production skills required of workers within an industry/organization. 26
	27 Examine principles of technology that underlie an industry/organization. 27
	28 Examine labor issues related to an industry/organization. 28
	29 Examine community issues related to an industry/organization. 29
	30 Examine health, safety, and environmental issues related to an industry/organization. 30
Addressing Elements of Student Life	31 Identify the purposes and goals of the student organization. 31
	32 Explain the benefits and responsibilities of membership in the student organization as a student and in professional/civic organizations as an adult. 32
	33 Demonstrate leadership skills through participation in student organization activities, such as meetings, programs, and projects. 33
	34 Identify Internet safety issues and procedures for complying with acceptable use standards. 34
Exploring Work-Based Learning	35 Identify the types of work-based learning (WBL) opportunities. 35
	36 Reflect on lessons learned during the WBL experience. 36
	37 Explore career opportunities related to the WBL experience. 37
	38 Participate in a WBL experience, when appropriate. 38
Introducing Unmanned Aircraft Systems	39 Describe applications of unmanned aircraft systems (UAS). 39
	40 Define a UAS, according to the Federal Aviation Administration (FAA). 40
	41 Explain the design of UAS. 41

	91 Secure mission supplies. 91
	92 Appraise UAS batteries. 92
	93 Plan to secure operations area. 93
	94 Perform mission planning to take in consideration for emergency procedures. 94
Flying the sUAS	**95** Define operation objective. 95
	96 Assess area of operations. 96
	97 Set up flight control area. 97
	98 Upload flight plan to aircraft. 98
	99 Conduct safety briefing. 99
	100 Conduct mission briefing. 100
	101 Check for foreign objects and debris (FOD). 101
	102 Verify use of personal protective equipment (PPE). 102
	103 Communicate with crew and Air Traffic Control (ATC). 103
	104 Secure launch and recovery area. 104
	105 Launch aircraft. 105
	106 Fly the UAS. 106
	107 Maintain visual contact with aircraft. 107
	108 Monitor site communications. 108
	109 Recover aircraft. 109
	110 Conduct a post-flight inspection. 110
	111 Conduct a post-flight debrief. 111
	112 Pack sUAS for transport. 112
Coordinating Flight Operations Logistics	**113** Develop a schedule for the day of the flight. 113
	114 Communicate flight schedule. 114
	115 Coordinate mission-dependent resources. 115