Georgia CTAE

# Industry Fundamentals and Occupational Safety (2013)

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| **Demonstrate employability skills required by business and industry.** AC-IFOS-1 | 1 **Communicate effectively through writing, speaking, listening, reading, and interpersonal abilities.** AC-IFOS-1.1 |
| | 2 **Demonstrate creativity by asking challenging questions and applying innovative procedures and methods.** AC-IFOS-1.2 |
| | 3 **Exhibit critical thinking and problem solving skills to locate, analyze and apply information in career planning and employment situations.** AC-IFOS-1.3 |
| | 4 **Model work readiness traits required for success in the workplace including integrity, honesty, accountability, punctuality, time management, and respect for diversity.** AC-IFOS-1.4 |
| | 5 **Apply the appropriate skill sets to be productive in a changing, technological, diverse workplace to be able to work independently and apply team work skills.** AC-IFOS-1.5 |
| | 6 **Present a professional image through appearance, behavior and language.** AC-IFOS-1.6 |
| **Understand and practice construction safety.** AC-IFOS-2 | 1 **Demonstrate knowledge of use and care of PPE.** AC-IFOS-2.1 |
| | 2 **Demonstrate a basic knowledge of OSHA and its regulations.** AC-IFOS-2.2 |
| | 3 **Demonstrate a basic knowledge of safety as related as relates to personal safety, aerial work, electricity, and fire.** AC-IFOS-2.3 |
| **Understand and apply math concepts as applied to construction.** AC-IFOS-3 | 1 **Demonstrate knowledge and application of measuring.** AC-IFOS-3.1 |
| | 2 **Apply basic math computations to construction settings.** AC-IFOS-3.2 |
| | 3 **Apply basic geometric calculations including the 3-4-5 rule.** AC-IFOS-3.3 |
| | 4 **Demonstrate knowledge and application of area and volume calculations.** AC_IFOS-3.4 |
| **Ut po** Skip to main content | **emonstrate knowledge of rules and regulations regarding the safe use of hand nd power tools** AC-IFOS-4.1 |

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| professional and safe manner AC-IFOS-4 | 2 | Demonstrate knowledge of the care and maintenance of hand and power tools. AC-IFOS-4.2 |
| | 3 | Demonstrate knowledge of proper usage techniques of hand and power tools. AC-IFOS-4.3 |
| Demonstrate knowledge of construction drawings terms, components, and symbols. AC-IFOS-5 | 1 | Demonstrate knowledge of construction drawings terms. AC-IFOS-5.1 |
| | 2 | Demonstrate knowledge of construction drawings components. AC-IFOS-5.2 |
| | 3 | Demonstrate knowledge of construction drawings symbols. AC-IFOS-5.3 |
| Explain and implement safe rigging procedures. AC-IFOS-6 | 1 | Demonstrate the knowledge of basic rigging equipment. AC-IFOS-6.1 |
| | 2 | Demonstrate the knowledge of basic rigging communication. AC-IFOS-6.2 |
| | 3 | Demonstrate the knowledge of basic rigging safety. AC-IFOS-6.3 |
| Understand hazards associated with materials handling. AC-IFOS-7 | 1 | Demonstrate knowledge of the importance of proper materials handling. AC-IFOS-7.1 |
| | 2 | Demonstrate the ability to develop a pre-task plan. AC-IFOS-7.2 |
| | 3 | Demonstrate the ability to use proper materials handling techniques. AC-IFOS-7.3 |
| | 4 | Demonstrate the ability to choose appropriate materials handling equipment for a given task. AC-IFOS-7.4 |
| | 5 | Demonstrate the ability to recognize hazards and follow appropriate safety procedures associated with materials handling. AC-IFOS-7.5 |
| Demonstrate knowledge of the different forms of communication used in the construction industry. AC-IFOS-8 | 1 | Demonstrate knowledge of interpreting written and verbal instructions. AC-IFOS-8.1 |
| | 2 | Demonstrate the ability to effectively communicate using verbal and written skills. AC-IFOS-8.2 |
| | 3 | Demonstrate the ability to effectively communicate using electronic communication devices. AC-IFOS-8.3 |
| Develop an understanding of construction careers and describe the principal fields of specializations (i.e ma ele | 1 | Identify education requirements for construction occupations and locations where programs of study are available. AC-IFOS-9.1 |
| | 2 | Match construction job titles with qualifications and responsibilities. AC-IFOS-9.2 |
| | | articipate in activities related to career interests. AC-IFOS-9.3 |

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precision machining) and identify associated career opportunities. AC-IFOS-9

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**Examine how SkillsUSA is a co-curricular part of career and technical education through leadership development, school and community service projects, and competitive events.** AC-IFOS-10

1. **Explain the purpose, mission, objectives, motto, colors, official dress and other distinguishing characteristics of SkillsUSA.** AC-IFOS-10.1
2. **Explain how participation in SkillsUSA can promote lifelong responsibility for community service, professional growth and development.** AC-IFOS-10.2
3. **Explore the impact and opportunities that SkillsUSA can develop to bring business and industry together with education in a positive working relationship through innovative leadership and career development programs.** AC-IFOS-10.3
4. **Explore the local, state, and national opportunities available to students through participation in SkillsUSA, including but not limited to conferences, competitions, community service, philanthropy, and other SkillsUSA activities.** AC-IFOS-10.4