



Butler Tech Firefighting Technology Essential Skills Profile

This profile provides an outline of the skills required for the successful completion of this career program. Additional information is located on the Butler Tech website at: <https://www.butlertech.org/high-school/> and selecting the corresponding career program.

Recommended WorkKeys® Scores for Firefighting Technology

Applied Mathematics - 4	Graphic Literacy - 5
Workplace Documents - 4	

*Practice tests and more information at: www.act.org/workkeys

Skills

Active Listening	Giving full attention to what other people are saying, taking time to understand the points being made, asking questions as appropriate, and not interrupting at inappropriate times.
Monitoring	Monitoring / Assessing performance of yourself, other individuals, or organizations to make improvements or take corrective action.
Coordination	Adjusting actions in relation to others' actions.

Abilities Required

Problem Sensitivity	The ability to tell when something is wrong or is likely to go wrong. It does not involve solving the problem, only recognizing there is a problem.
Static Strength	The ability to exert maximum muscle force to lift, push, pull, or carry objects.
Multilimb Coordination	The ability to coordinate two or more limbs (for example, two arms, two legs, or one leg and one arm) while sitting, standing, or lying down. It does not involve performing the activities while the whole body is in motion.

Knowledge Required in Firefighting Technology

Customer and Personal Service	Knowledge of principles and processes for providing customer and personal services. This includes customer needs assessment, meeting quality standards for services, and evaluation of customer satisfaction.
Public Safety and Security	Knowledge of relevant equipment, policies, procedures, and strategies to promote effective local, state, or national security operations for the protection of people, data, property, and institutions.
Building and Construction	Knowledge of materials, methods, and the tools involved in the construction or repair of houses, buildings, or other structures such as highways and roads.

Firefighting Technology Activities

- Rescue victims from burning buildings, accident sites, and water hazards.
- Dress with equipment such as fire-resistant clothing and breathing apparatus.
- Assess fires, situations, and report conditions to superiors to receive instructions, using two-way radios.
- Move toward the source of a fire, using knowledge of types of fires, construction design, building materials, and physical layout of properties.
- Respond to fire alarms and other calls for assistance, such as automobile and industrial accidents.
- Create openings in buildings for ventilation or entrance, using axes, chisels, crowbars, electric saws, or core cutters.
- Drive and operate fire fighting vehicles and equipment.
- Inspect fire sites after flames have been extinguished to ensure that there is no further danger.
- Position and climb ladders to gain access to upper levels of buildings, or to rescue individuals from burning structures.
- Select and attach hose nozzles, depending on fire type, and direct streams of water or chemicals onto fires.
- Maintain contact with fire dispatchers at all times to notify them of the need for additional firefighters and supplies, or to detail any difficulties encountered.
- Collaborate with other firefighters as a member of a firefighting crew.
- Patrol burned areas after fires to locate and eliminate hot spots that may restart fires.
- Collaborate with police to respond to accidents, disasters, and arson investigation calls.
- Participate in fire drills and demonstrations of firefighting techniques.
- Prepare written reports that detail specifics of fire incidents.
- Maintain knowledge of current firefighting practices by participating in drills and by attending seminars, conventions, and conferences.
- Participate in physical training activities to maintain a high level of physical fitness.
- Protect property from water and smoke, using waterproof salvage covers, smoke ejectors, and deodorants.
- Inform and educate the public on fire prevention.
- Salvage property by removing broken glass, pumping out water, and ventilating buildings to remove smoke.
- Orient self in relation to fire, using compass and map, and collect supplies and equipment dropped by parachute.
- Clean and maintain fire stations and firefighting equipment and apparatus.
- Inspect buildings for fire hazards and compliance with fire prevention ordinances, testing and checking smoke alarms and fire suppression equipment as necessary.
- Take action to contain any hazardous chemicals that could catch fire, leak, or spill.
- Extinguish flames and embers to suppress fires, using shovels or engine- or hand- driven water or chemical pumps.

Technology

Word Processing software	Spreadsheet software
Project Management software	Office Suite software
Database user interface and query software	

Personality

Realistic: People interested in this work like activities that include practical, hands-on problems and solutions. They do well at jobs that need:	
Dependability	Self-Control
Integrity	Independence
Attention to Detail	Cooperation

Available Certifications

State of Ohio and National Registry of Emergency Medical Technicians (EMT) (12 Points)	CPR/First Aid Certification (1 Point)
State of Ohio Professional Firefighter I (12 Points)	State of Ohio Professional Firefighter II (12 Points)

Possible College Credits

College Credit Plus in English, Math, Social Studies, or Science	Must be preapproved. Must pass a college course at an Ohio college or College Credit Plus class at Butler Tech.
Career Technical Credit Transfer	<p>The Ohio Transfer to Degree Guarantee helps career and technical students transfer credits earned in high school to community college or four-year degree programs. The credit can be used at any Ohio public college or university:</p> <ul style="list-style-type: none"> • If you successfully completed your career-technical program and passed certain required assessments. • If you attend a similar program at a public Ohio college or university. <p>For more information, go to www.transfercredit.ohio.gov</p>
Articulated Credit	Butler Tech has agreements with certain colleges; if you attend one of those colleges, you can get credit toward a specific degree.

*Additional college or post-secondary education may be required in this field

Possible Career Pathways

Firefighter/EMT	Fire Safety Inspector
Paramedic	Fire Officer