



Butler Tech Landscape Design and Construction 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 Landscape Design and Construction

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

*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.
Reading Comprehension	Understanding written sentences and paragraphs in work related documents.
Coordination	Adjusting actions in relation to others' actions.

Abilities Required

Oral Comprehension	The ability to listen to and understand information and ideas presented through spoken words and sentences.
Oral Expression	The ability to communicate information and ideas in speaking so others will understand.
Visualization	The ability to imagine how something will look after it is moved around or when its parts are moved or rearranged.

Knowledge Required in Landscape Design and Construction

Design	Knowledge of design techniques, tools, and principles involved in production of technical plans, blueprints, drawings, and models.
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.
English Language	Knowledge of the structure and content of the English language including the meaning and spelling of words, rules of composition, and grammar.

Landscape Design and Construction Activities

- Confer with clients, engineering personnel, or architects on landscape projects.
- Prepare site plans, specifications, or cost estimates for land development.
- Analyze data on conditions such as site location, drainage, or structure location for environmental reports or landscaping plans.
- Develop marketing materials, proposals, or presentations to generate new work opportunities.
- Inspect landscape work to ensure compliance with specifications, evaluate the quality of materials or work, or advise clients or construction personnel.
- Prepare graphic representations or drawings of proposed plans or designs.
- Present project plans or designs to public stakeholders, such as government agencies or community groups.
- Integrate existing land features or landscaping into designs.
- Manage the work of subcontractors to ensure quality control.
- Create landscapes that minimize water consumption such as by incorporating drought-resistant grasses or indigenous plants.
- Collaborate with architects or related professionals on whole building design to maximize the aesthetic features of structures or surrounding land and to improve energy efficiency.
- Research the latest products, technology, or design trends to stay current in the field.
- Inspect proposed sites to identify structural elements of land areas or other important site information, such as soil condition, existing landscaping, or the proximity of water management facilities.
- Identify and select appropriate sustainable materials for use in landscape designs, such as recycled wood or recycled concrete boards for structural elements or recycled tires for playground bedding.
- Develop planting plans to help clients garden productively or to achieve particular aesthetic effects.
- Design and integrate rainwater harvesting or gray and reclaimed water systems to conserve water into building or land designs.
- Collaborate with estimators to cost projects, create project plans, or coordinate bids from landscaping contractors.
- Prepare conceptual drawings, graphics, or other visual representations of land areas to show predicted growth or development of land areas over time.
- Provide follow-up consultations for clients to ensure landscape designs are maturing or developing as planned.

Technology

Graphics or photo imaging software	Database user interface and query software
Document management software	Computer-aided design software
Desktop publishing software	Laser plotting

Personality

Artistic: People interested in this work like activities that include creating, designing, and making their own rules. They do well at jobs that need:	
Attention to Detail	Initiative
Integrity	Innovation
Dependability	Cooperation

Available Certifications

Rise-Up Retail Industry Fundamentals (6 Points)	CPR/ First Aid Certification (1 Point)
Rise-Up Customer Service & Sales (6 Points)	OSHA 10 (1 Point)

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

Landscape Designer	Arborist
Landscape Architect	Grounds Superintendent
Landscape Installer	Hardscape Specialist Contractor