

Natural Resources Technology



Recommendations for Success:

- Effective communication skills (including tact and diplomacy)
- Good attendance and homework completion
- Problem-solving skills
- Leadership abilities
- Ability to solve arithmetic problems quickly and accurately
- Work in all types of weather conditions
- Team working skills and the ability to work independently
- Good attendance and class participation
- Ability to follow written and oral directions
- Self motivation
- Attention to detail
- Hand-eye coordination
- Manual dexterity
- Tolerate loud noise levels

Lenape Technical School	Natural Resources Technology
Objective of field	To provide students with a wide range of basic skills desired by employers in the fields of natural resource maintenance, horticulture, forestry, building trades, and agriculture.
Job Duties	<ul style="list-style-type: none"> • Shop safety • Use of hand and power tools • Welding • Small gas engine maintenance • Plant care • Small animal care
Classroom Tests	Year 1: 20 tests/year* Year 2: 25 tests/year* Year 3: 15 tests/year* <i>*This number is approximate and is subject to change</i>
Certification Tests	NOCTI (National Occupational Competency Testing Institute) Forklift First Aid CPR
Books	<u>The Science of Agriculture: A Biological Approach</u> <u>Agricultural Mechanics: Fundamentals and Applications</u> <u>Small Gas Engines</u>
Method of Learning	Year 1: 40% theory, 60% hands-on* Year 2: 30% theory, 70% hands-on* Year 3: 20% theory, 80% hands-on* <i>*These percentages are approximate and are subject to change</i>
Co-op/Clinical	<ul style="list-style-type: none"> • Student must be recommended by the instructor • Student must receive parental permission • Student must have the skills necessary to be successful at the position • Student must have completed 80% of program competencies • Student must receive approval from all members of the professional staff • Student must have a "B" grade or higher in all subjects • Student must have a satisfactory discipline record • Student must maintain passing grades while they are in the co-op program • Student must maintain strong attendance record and demonstrate punctuality • Student must provide their own transportation to and from work
Homework	<ul style="list-style-type: none"> • Chapter reviews • Worksheets • Various projects as determined by instructor
Planned Courses	<ul style="list-style-type: none"> • Greenhouse Management <ul style="list-style-type: none"> ○ Horticulture ○ Aquaculture ○ Plant Science • Equipment Maintenance <ul style="list-style-type: none"> ○ Small Gas Engines ○ Electrical Wiring ○ Welding ○ Light Equipment Operation/Safety ○ Woodworking Skills • Animal Science <ul style="list-style-type: none"> ○ Small Animal Physiology and Health ○ Large Animal Physiology and Health

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Planned Courses Continued	<ul style="list-style-type: none"> • Environmental Science <ul style="list-style-type: none"> ○ Forestry ○ Chainsaw Safety ○ Surveying ○ Landscaping ○ Turf Management ○ Land use
Academic Skills	High School reading level Math Skills: <ul style="list-style-type: none"> • Measurement • Fractions/Decimals
Soft Skills	<ul style="list-style-type: none"> • Communication • Patience • Ability to work with others • Ability to follow directions • Time management
Computer Skills	<ul style="list-style-type: none"> • Microsoft Word, Excel, and PowerPoint
Physical Requirements	<ul style="list-style-type: none"> • Be in good overall physical health • Lift 50 lbs. • Tolerate extreme temperatures • Hand-eye-foot coordination • Manual dexterity • Tolerate loud noise
Job Duties	<ul style="list-style-type: none"> • Shop safety • Use of hand and power tools • Welding • Small gas engine maintenance • Plant care • Small animal care
Training	Natural Resources Technology (NRT) is an ever-changing program designed to offer a wide range of skills that can be applied to many different occupations. Skills developed in NRT are immediately transferable to various occupations or can be utilized by students enrolled at a community/technical college, university or other post-secondary institution.
Uniform Requirements	Student's Expense: <ul style="list-style-type: none"> • Natural Resources Uniform (shop shirt and blue jeans) • Lenape Tech Polo Shirt • Safety Glasses (first pair provided to student) • Leather work shoes
Articulation/Agreements	Local Articulation Agreements are as follows: <ul style="list-style-type: none"> • Butler County Community College
Employment/Job Outlook	"Green" industry jobs are in high demand at this time. There is a current demand for employees in fields such as: natural gas/oil well maintenance, landscaping, veterinary technicians, alternative energy, golf course maintenance, and many others.

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Employment/Job Outlook Continued	Entry Level	2-Year Associates Degree	4-Year Bachelor's Degree
	Landscape Laborer Timber Cutter Florist/Greenhouse Worker Fire Warden Garden Center Specialist Kennel Operator	Landscape Designer Forest Ranger Greenhouse Manager Lumber Grader Veterinary Technician Game Warden Land Surveyor Environmental	Landscape Architect Agricultural Engineer Plant Pathologist Geneticist Safety Engineer Wildlife Manager Golf Course Superintendent
How to find out more?	http://online.onetcenter.org/find http://www.bls.gov/ooh/farming-fishing-and-forestry/forest-and-conservation-workers.htm#tab-1		