

**TECHNICAL CERTIFICATE - HIGH VOLTAGE
LINEMAN TECHNOLOGY**

General Education Requirements:		Hours
ENG 1233	Technical Composition	3
MATH 1103	Technical Mathematics	3
MIS 1443	Technical Computer Applications	3
PSY 1013	Human Relations	3

CORE CURRICULUM: (30 hours)		Hours
DTI 1107	Commercial Driver Training	7
HVLT 1001	Introduction to Utilities	1
HVLT 1102	Introduction to Climbing & Groundman Procedures	2
HVLT 1203	Electrical Safety	3
HVLT 1401	Heavy Construction Equipment ..	1
HVLT 1403	DC and AC Circuit Analysis	3
HVLT 1504	Overhead Distribution Systems & Pole Framing	4
HVLT 1701	Introduction to Transformers	1
HVLT 1703	Principles of Operation of High Voltage Distribution Systems ..	3
HVLT 1801	Underground Distribution	1
HVLT 1904	Electrical Capstone Experience I .	4

Minimum Required (42)

FREQUENTLY ASKED QUESTIONS

- Q: What is the procedure for admission once I am selected by the Electrical Cooperative?
- A: A completed ASU-Newport Application for Admission is the first step to admissions. Then all college and high school official transcripts and a copy of your medical immunization records should be sent to the Office of the Admissions and Records. If you have taken the ACT or SAT, that score should also be sent.
- Q: Is all this coursework just theory?
- A: No, in the Electrical Capstone Experience you will be involved with other technicians and actually work on the equipment you are learning about. Also as a part of the program in the Electrical Capstone Experience you will spend 10 weeks at your sponsoring cooperative to engage in a supervised internship to put those skills that you have learned to use. There are also general education courses in English, Mathematics, Human Relations and Computer Applications.
- Q: What are the costs associated with this program of study?
- A: If you are a sponsored student, all tuition and books are provided by the cooperative. The cost of housing while attending is typically not covered by the sponsor, and must be provided by the student.
- Q: Can I qualify for Federal Financial Aid?
- A: Yes you may qualify, because the Technical Certificate in High Voltage Lineman Technology is an accredited college program of study. The Financial Aid Office is able to provide all forms and is willing to help all students in the completion of the forms.
- Q: Is there housing available on campus?
- A: No, but the Office of Student Services can provide you with a list of possible rentals.



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"A Great Place to start!"

**Technical Certificate
in
High Voltage
Lineman Technology**



**Electric Cooperatives
of Arkansas**

Technical Certificate in High Voltage Lineman Technology

Arkansas State University-Newport and Electric Cooperatives of Arkansas are excited to extend to individuals an opportunity to obtain a Technical Certificate in High Voltage Lineman Technology! Prospective students are encouraged to apply for admission anytime after being selected for sponsorship. Once admitted, students should take full advantage of this unique opportunity to learn and pursue an outstanding career.

Electric cooperatives have been serving Arkansans since 1938 when First Electric Cooperative Corp. in Jacksonville first turned on power to its distribution system. In the years since that landmark occasion, other electric distribution cooperatives have been formed in Arkansas, bringing the statewide total to 17. Today, cooperative service areas cover more than 60 percent of the land area in Arkansas and include about 440,000 customers, or members.

The Technical Certificate in High-Voltage Lineman Technology is a unique program. This is an industry specific partnership between the Electrical Cooperatives of Arkansas and ASU-Newport. It enables ASU-Newport the ability to provide students a program of study that will fulfill a unique career goal.



Schedule of Courses:

Fall Semester (22 credit hours)

DTI	1107	Commercial Driver Training
HVLT	1001	Introduction to Utilities
HVLT	1102	Introduction to Climbing & Groundman Procedures
HVLT	1203	Electrical Safety
HVLT	1403	DC and AC Circuit Analysis
MATH	1103	Technical Mathematics
MIS	1443	Technical Computer Applications

Spring Semester (16 credit hours)

ENG	1233	Technical Composition
HVLT	1401	Heavy Construction Equipment
HVLT	1504	Overhead Distribution Systems and Pole Framing
HVLT	1701	Introduction to Transformers
HVLT	1703	Principles of Operation of High Voltage Distribution Systems
HVLT	1801	Underground Distribution
PSY	1013	Human Relations

Summer Semester (4 credit hours)

HVLT	1904	Electrical Capstone Experience I
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The Program's Technical Courses

- **DTI 1107 Commercial Driver Training** - This nineteen-day course covers motor operation, such as drive trains, brakes, fuel, exhaust, cooling, electrical, suspension, steering, and coupling; shift patterns, securing loads, and principles of maneuvering; laws and regulations, log books, bill of lading, and trip reports.
- **HVLT 1001 Introduction to Utilities** - This is the beginning course for the apprentice program and contains instruction focused around electrical systems in an overview.
- **HVLT 1102 Introduction to Climbing & Groundman Procedures** - This course is the foundation on which future courses build. In this course classroom the students will be instructed in wood quality requirements, pole inspection techniques, care and fitting of climbing equipment and safety procedures related to pole climbing. This course will instruct the student on the basic expectations for the team-member stationed on the ground. It will also include topics such as ropes, knots, and rigging. The course will also include basic safety requirements, CPR, and first aid.
- **HVLT 1203 Electrical Safety** - This course will provide instruction in safety practices related to electrical utilities. Students will be instructed in NESC, NEC as well as OSHA requirements.
- **HVLT 1401 Heavy Construction Equipment** - This course is a continuance of equipment operations. Students will receive instruction in the set-up procedures, vehicle inspection, hand signals, and safety issues related to the operation of equipment.
- **HVLT 1403 DC and AC Circuit Analysis** - This course will provide the student with the fundamentals of electricity. It will provide a basic understanding of formulas necessary to the field of electricity and electronics. Other topics covered will be the use of meters and how testing is accomplished.
- **HVLT 1504 - Overhead Distribution Systems & Pole Framing** - The student will receive instruction in overhead line construction. This course will provide instruction in wire sagging, installing pole mounted equipment, and safety practices. This course is a laboratory course providing instruction in setting poles, materials required, and reading plans.
- **HVLT 1701 Introduction to Transformers** - This course will provide the student with the basic understanding of transformers. This will include transformer construction, operation, connections, transformer loading, and safety.
- **HVLT 1703 Principles of Operation of High Voltage Distribution Systems** - This course will include an overview to substations, transmission systems, and generation systems. Instruction will be provided in electrical devices, i.e. step-up transformers, regulators, capacitors, breakers, fusing, etc.
- **HVLT 1801 Underground Distribution** - Instruction will be provided in trenching, shoring and tools needed to construct and maintain underground distribution systems.
- **HVLT 1904 Electrical Capstone Experience I** - An employment experience relating to the electrical utilities. An instructor will monitor the student's progress with the supervising employer.