

BUILDING SCIENCE & TRADES

GREEN BUILDING MAINTENANCE & MANAGEMENT A.A.S.

61-63 credits

Gain the skills and knowledge needed to maintain and manage high-performance commercial buildings. Learn current theories and get hands-on training to work with evolving technologies like photovoltaic cells, wind generators, geothermal heating, and HVAC systems.

SU GREEN BUILDING MATERIALS

In this course students learn chose interior and exterior elements for construction or remodeling using green building principles. Students will learn how to take longevity, cost, performance and environmental factors into account when making decisions about building interior and exterior surfaces. Selection of cleaning and maintenance materials is also covered.

GRB140-C01 ONLINE 1/22-5/16 \$633

ENERGY MANAGEMENT

In this course students learn how to calculate and measure energy consumption of buildings. Students learn to navigate the growing list of energy efficiency upgrades that can be used to determine the factors involved in making decisions about energy upgrades. Topics include energy audit, action planning, financial management and project management.

GRB130-C01 ONLINE 1/22-5/16 \$633

GREEN HVAC

In this course students learn the basic principles of heating, ventilation and air conditioning systems in commercial buildings. Topics include heat loss calculations, fuels and combustion, waste heat recovery, and routine maintenance of these systems.

GRB260-C01 ONLINE 1/22-5/16 \$633

SUSTAINABLE LANDSCAPING (CARE OF GREEN SPACES)

In this course students learn to make decisions about the use of materials for and care of the green spaces incorporated in and around the buildings they maintain. Topics include consideration of a healthy site, healthy injured sites, protection of water resources, choosing appropriate plant materials, noise abatement, and maintenance of green spaces.

GRB240-C01 ONLINE 1/22-5/16 \$633

SU NEW! ENTERTAINMENT ELECTRONICS

Entertainment Electricians is a three-day course covering almost all of the topics listed in the content outline of the ETCP Entertainment Electrician Certification exam. It is organized in a very logical way in order to accommodate a range of skills and experience. It starts with basic electricity, circuit laws, and theory, and it builds towards more advanced topics including power distribution, power factor, and harmonics, with an emphasis on electrical safety, the use of PPE, codes and regulations, grounding and bonding, and GFCIs. It also covers control systems starting with DMX512-A, RDM, and Ethernet-based protocols (Art-Net and sACN), as well as wireless DMX, Ethernet networks, IP addresses, subnet masks, and more.

This course covers topics that are listed as being in the content outline for the ETCP Entertainment Electrician Certification Exam and the ETCP Portable Power Distribution Certification Exam. If you are already ETCP certified, it counts as 21 recertification credits for Entertainment Electricians, Portable Power Distribution Technicians, Arena Riggers, and Theatre Riggers.

DCB 2192-01 M-W 6/18-20 9am-5pm KSU \$675

UB SMALL ENGINE REPAIR & TURF MANAGEMENT

Small engines need regular service to reduce the frequency of malfunctions and to maintain optimal performance. Get ready for each season and learn how to service, repair and maintain seasonal blowers, mowers and string-trimmers before you need or store them away. This class will focus on simple two and four-cycle engine theory and repair/maintenance techniques as well as instruction on lawn maintenance. Each season provides us with an opportunity to weed and feed. You will learn the basics of soil science, turf grass identification, how to fertilize a lawn and to control weeds, insects, and other turf grass pests. This class is designed for the homeowner, as well as skilled trades people, and will be taught by outdoor power equipment expert Charles Giarizzo and turf management and horticulture expert Alan Kulibaba. Students are encouraged to bring in their own equipment to repair.

WW116-0205CT M/R 2/5-3/22 5-8pm CT \$509
No class 2/19



AUTOMOTIVE PROGRAMS WILL RETURN IN THE FALL 2018

AUTOMOTIVE MAINTENANCE & LIGHT REPAIR
NEW! AUTOMOTIVE ALIGNMENT
MEET WITH OUR INSTRUCTORS AT THE JANUARY 17 OPEN HOUSE.

Tour the automotive bay, and learn more about our industry-leading wheel alignment system and the new programs we will be offering.

BUILDING SCIENCE & TRADES

UB ELECTRICAL APPRENTICE PROGRAM

This five-year program has been designed and developed to meet the mandated requirements for related instruction in the New York State Registered Electrical Apprentice Program. Students will receive in excess of 180 hours of instruction per year for 900 hours over five years while attending class two nights per week from September to June. Classes will offer both theory and hands-on training. Upon successful completion of the entire program, New York State Registered Electrical Apprentices will be qualified as journey-workers. This program of study is also open to:

- Those already employed in the electrical trade who are not affiliated with a registered program
- Those employed in related trades who wish to expand their skills
- Those who desire employment in the electrical trade

Instructors: G. Lichy, M Detweiler, and C. Peone are Master Electricians. B. Ecker is a Distinguished Member of the Technical Staff at Verizon Communications, Inc. Approved for the Training of Veterans. NYS Education Dept. & NYS Dept. of Labor Approved Program.

For additional information and to initiate the registration process, call Carolyn Detweiler at 845-331-5050 ext. 2226.

EAP-1819 • 60 Sessions/180 + hours - \$2,719 per year, and does not include textbooks. ORIENTATION 5/23 & 7/11.

TYPICAL SCHEDULE

1st YEAR COURSES

Trade Math I	39 hrs
Direct Current Theory	39 hrs
Trade Safety	21 hrs
Residential Wiring I	30 hrs
Residential Wiring II	30 hrs
Electrical Blueprint Reading	24 hrs
TOTAL	183 hrs

2nd YEAR COURSES

Alternating Current Theory	39 hrs
Industrial Safety & Labor Relations	21 hrs
Instruments Measuring & Testing	18 hrs
Commercial Wiring I	30 hrs
Commercial Wiring II	30 hrs
Adult First Aid/CPR Certification	8 hrs
National Electrical Code	30 hrs
OSHA Safety Certification	10 hrs
TOTAL	186 hrs

3rd YEAR COURSES

Transformer Theory & Power Distr.	45 hrs
General Alarms	30 hrs
Semi-Conductor Theory	21 hrs
Industrial Semi-Conductor Theory	27 hrs
Electrical Estimating	24 hrs
PV Systems & Concepts	40 hrs
TOTAL	187 hrs

4th YEAR COURSES

Motor & Generator Theory	39 hrs
Motor Control Theory	39 hrs
Motor Control Wiring & Motor Wiring	15 hrs
Industrial Wiring	30 hrs
PV System Installation	40 hrs
Welding for Electricians	24 hrs
TOTAL	187 hrs

5th YEAR COURSES

Telecommunications	45 hrs
Fiber Optics Technology	24 hrs
Grounding & Bonding	30 hrs
Programmable Controllers	27 hrs
Electrical Code Update	30 hrs
Elective	30 hrs
TOTAL	186 hrs

2018 ORIENTATION SESSIONS

Please attend either session for the Electrical Apprentice Program offered at Ulster BOCES, held at the Career & Technical Center, Port Ewen.

May 23 & July 11

319 Broadway, Adult Services Entrance, Port Ewen, NY 12466
845-331-0902 • ulsterboces.org

WE LOOK FORWARD TO SEEING YOU THERE!

UB AIR CONDITIONING CERTIFICATION

This course provides the opportunity to become a Certified Technician and receive EPA 608, 609, and R410A Certification. This course is designed for building maintenance personnel and those seeking careers as entry-level service technicians. Learn HVAC/refrigeration theory, as well as how to service and repair residential and commercial refrigeration systems. Study refrigerants and handling procedures for recovery, recycling, and reclamation to meet EPA regulations. Safety glasses are required. **Instructors:** J. Henriksen & J. Santiago

TR101-0220CT T/R 2/20-5/24 5:30-9:30pm CT \$1,899

OIL HEAT TECHNICIAN

This course is designed for the beginner with little or no previous experience and combines HVAC theory with hands-on training. This course is useful for homeowners, maintenance personnel, or those seeking employment as an entry level technician. Ulster BOCES is a NORA (National Oil Heat Research Alliance) approved program and follows the NORA curriculum for Bronze level (entry level) technician training. Students will have the opportunity to sit for the NORA certification exam at the end of the program. The curriculum includes training in electrical theory, introduction to the burner and oil burner certification and controls. Safety glasses are required. **Instructors:** T. Fullman, M. Anderson & A. Orton

TR101-0220CT T/R 2/20-3/8 5:30-9:30pm CT \$1,999
PLUS M/W 3/12-6/6 5:30-9:30pm CT

WELDING CERTIFICATION COURSE

This entry level course will provide the training necessary to sit for the American Welding Society (AWS) shielded metal arc welding entry level certification. Includes instruction in welding safety and health, drawing and welding symbol interpretation, shielded metal arc welding (SMAW), gas metal arc welding (GMAW), flux cored arc welding, gas tungsten arc welding (GTAW), thermal cutting, plasma arc welding (PAC), and welding inspection and testing. Tuition includes personal welding equipment and materials.

WW112-0220CT T/R 2/20-5/3 6-9pm CT \$1,499

UB AWS STRUCTURAL WELDING EXAM

AWS D 1.1 structural steel, 1" groove weld, 3G and/or 4G Positions. **Proctor:** C. Hubert, AWS CWI

Exam fee is \$175 per position, maximum of two.

WWExam-0502CT S 5/2 8:30am-3pm CT \$175
WWExam-0602CT S 6/2 8:30am-3pm CT \$175