



TECH-24 University: Open to any service company in need of basic technician training. We can produce a profit source in a significantly shorter time span than can be done with the typical “ride and learn” concept that we have all been forced to do in the past. We can shave at least 5 months off of the learning curve for a novice mechanic and we can “finish-off” the training of a technician that is self-taught or is just really mechanically inclined but lacks good fundamentals. We do this every month in with EL-1, EL-2, G&S, REF-1, and REF 2 classes in our Richmond, VA Training Center.

TECH-24 University is designed to give equipment repair knowledge in stepped programs of instruction beginning with basic electrical training and troubleshooting (EL1 & EL2) with focus on the foodservice appliance tech’s needs. Students get equal amounts of classroom and hands on learning. We follow those in-depth two weeks (EL1 & EL2) with an additional program that provides the same type instruction in Gas and Steam theory, components, and troubleshooting skills.

The curriculum: 8am until 5pm Monday through Friday with a one hour break at noon for lunch. Students are tested regularly and their supervisors are sent daily reports. There is a strict *no cell phone, pda, tablet, or laptop policy* in the classroom. Class size is a maximum of 12 students. You must have EL-1 to come to EL-2. The Gas & Steam class can be done separately. We highly recommend all three weeks in a row. We have found the three week submersion really works and produces the best results. You will be given a skills card when your tech returns showing what they are signed off on knowing and what things we feel you should focus on to help your technician succeed.

EL-1 (40 hours of classroom instruction / hands on practical’s / daily testing)

- 100 question Pretest to be used as a start reference as compared to the Final
- Electrical Safety
- Electrical Terminology
- Basic Electrical Theory, Ohm’s Law
- Power Sources
- Series and Parallel Circuits
- Grounding and Neutral
- Terminal Blocks
- Proper Multi-meter usage, with practical
- Proper Electrical Wiring procedures with practical
- Switches, Design / Usage
- Switches, Troubleshooting / Repair / Replacement
- Infinite Controls
- Fuses
- Circuit Breakers
- Signal Lights
- Relays and Contactors
- End of week Testing



EL-2 (40 hours of classroom instruction / hands on practical's / daily testing)

- Review of previous week of instruction
- Capacitors
- Transformers
- Potentiometers
- Temperature Controls (Mechanical / Solid State)
- Heating Elements
- Plugs and Receptacles (with Practical)
- Power cord Replacement
- Motors (Three Phase, Single Phase, Shaded Pole, Capacitor Start)
- Liquid Level Controls
- Electrical Diagrams (Schematic, Pictorial, Ladder)
- Wiring basic circuits, Practical
- Wiring complex circuits, Practical
- Troubleshooting faulty circuits
- EL1 and EL2 Review
- End of class Final Exam

G&S (40 hours of classroom instruction / hands on practical's / daily testing)

Gas Portion Monday- Wednesday

- Per-Test for reference as compared to the Final Exam
- Gas Safety
- Gas Characteristics
- Combustion (complete / incomplete)
- Manual Gas Vales
- Shut Offs / Quick Disconnects / Flex Hoses
- Gas Burners
- Ceramic Infrared Burners
- Pressure Readings (Manometer usage)
- Pressure Regulators
- Leak Detection
- Millivolt system design
- Thermocouples
- Thermopiles
- Safety Vales
- Solenoid Valves
- Combination Valves
- Gas Thermostats (BJ / FDO / Fenwal)
- Ignition Modules
- Flame Sensing / Flame Rectification
- Spark Igniters



- Hot Surface Igniters
- Pilot assemblies
- High Limit devices
- **Steam portion Thursday and Friday**

- Basics of Steam
- Steam Cooking
- Water Quality
- Water Treatment
- Pipe Fittings and Valves
- Level Controls
- Pressure Controls and Reliefs
- Atmospheric Steamers
- Convection Steams
- Pressure Steamers
- Boiler-less Steamers
- Steam Kettles
- Boiler Maintenance / Descaling
- Final Review
- Final Exam

Class Schedule/Calendar: www.mytech24.com/t24u

Location: *Tech-24 Training Center*
9432 Atlee Commerce Blvd Ashland, VA 230
<https://plus.google.com/104663664651772722875/about?gl=US&hl=en-US>

Airport:
Richmond International (RIC) <http://www.flyrichmond.com/>

Hotel:
[Hampton Inn & Suites-Viginia Center](#)

Corp Rate for \$94.00 per night and includes all transfers to and from the Airport and the daily classes.

Here is the link to book a room and the Rate code is attached to the link for your convenience.

<http://hamptoninn.hilton.com/en/hp/reservations/index.jhtml?hotel=RICVCHX&corporateCode=0002764438>