

RANKEN

TECHNICAL COLLEGE

COURSE INFORMATION

Course Number: HVA 1002

Course Name: Electrical for HVACR Shop

CREDIT-BY-ASSESSMENT (CBA) COMPETENCY LIST

- Be able Use Ohm's law to calculate voltage, current, and resistance.
- Identify the difference in series, parallel, and series/parallel circuit.
- Understand the different types of motors, capacitors, and how they function.
- Distinguish the differences in current, potential, and solid state relays.
- Read and interpret electrical symbols and diagrams to troubleshoot, diagnose, and installation of electrical components.
- Be able to analyze electrical malfunctions through the use of HVACR wiring schematics and electrical test equipment.
- Correctly wire several single phase motors and circuits found in HVACR equipment Using wiring diagrams and tech sheets.