



Manufacturing Production: Maintenance, Installation & Repair: Electronic Control Systems Technology Career Pathway Program of Study

Unity High School

This Career Pathway Program of Study (based on the Production Pathway of the Manufacturing Career Cluster) can serve as a guide, along with other career planning materials, as learners continue on a career path. Courses listed within this program are only recommended coursework and should be individualized to meet each learner's educational and career goals. *This Program of Study, used for learners at an educational institution, should be

customized with course titles and appropriate high school graduation requirements as well as college entrance requirements. **EDUCATION** Other Required LEVELS GRADE **Career and Technical Courses** Sample Occupations Relating Social Studies/ English/ Courses and and/or Degree Major Courses for Math Science Recommended **Sciences** to This Pathway Language Arts **Manufacturing Production Pathway Flectives** Interest Inventory Administered and Program of Study Initiated for all Learners Introduction to Industrial ► Biomedical Equipment Technician Technology & ▶ Boilermaker 9 English I Algebra I Integrated Science Consumer Ed PΕ Engineering ► Communication System Installer/Repairer Cabinetmaking & Millwork Cabinetmaking & ► Computer Installer/Repairer 10 P.E. English II Geometry Biology I Western civilization Milwork II ➤ Computer Maintenance Technician ► Electrical Equipment Precision Metal Precision Metal Installer/Repairer 11 English III Algebra II U.S. History P F /Health Production II Production I ► Facility Electrician College Placement Assessments-Academic/Career Advisement Provided ► Industrial Electronic Installer/Repairer/ Manager ► Industrial Machinery Mechanic 12 **ENG 101** P.E./Consumer Ed. Math Recommended Government Mechanical Drafting Mechanical Drafting I ► Industrial Maintenance Electrician ► Industrial Maintenance Dual Credit Transcripted-Postsecondary courses may be taken/moved to the secondary level for articu-Technician/Mechanic ELT 111 Computer **ELT 131 ELT 179** ► Instrument Calibration and **ELT 150** Intro Apps for Technicians Residential Wiring Industrial Control Repairer MAT 124 or 134 to Electricity & Devices ► Instrument Control Technician Electronics ▶ Job/Fixture Designer 13 CSC 133 ELT 155 Digital ELT 171 Analog **ELT 231** ► Laser Systems Technician PC Hardware & OS ELT 134 Motors. Control Systems Control Systems Programmable ► Maintenance Repairer Controls, and Drives ► Major Appliance Repairer Maintenance Controllers ► Meter Installer/Repairer ELT 299 Robitics **Summer Class** ► Plumber, Pipe Fitter and Steam **ELT 191** Social/Behavioral **ELT 292** & Automation EST 113 -- Work Security & Home **ENG 101** Science or **Process Control Experience & Ethics** Security System Installer Humanities/Fine Arts Automation 14 Social/Behavioral COM 103 or **ELT 230 ELT 293** Science or FLT 295 Modicon **COM 120** Humanities/Fine Arts Transformers & Industrial Control **Automation & Control** Generators Networks Total Hours for Associate in Applied Science Degree = 70 hrs. 15 Continue courses in the area of specialization 16 Complete Baccalaureate Manufacturing Major (4-Year Degree Program) Required Courses. *Recommended Course Schools in Illinois with Bachelor's degree programs in Manufacturing: University of Illinois at Urbana-Champaign, Illinoios State University, Northern Illinois University, Recommended Electives Illinois Institute of Technology, Southern Illinois University, University of Illinois at Chicago, Available Dual Credit Courses Bradley University, Western Illinois University, Eastern Illinois University, Northwestern University Postsecondary Required Courses for the AAS Degree, according to student schedule