



HOME4TECHS

Hands On Maintenance Education 4 TECHnicians

Northwest State
Community College



Problem:

- Curriculum needed realignment to employer needs
- Traditional college schedules no longer works for employers
- Inconsistent skill levels of graduates
- Completion of traditional college certificate/degrees take too long

Solution:

- Redesign the curriculum to meet employers needs
- Build a **competency-based, hybrid instructional model**
- Require individual skill assessments
- Move the courses' **lecture portion to an online format**
- Utilize technology tools to accelerate learning
- Offer the students a **flexible open-lab schedule**

Project consists of 3 distinct areas:

Curriculum

- Realignment of curriculum
- Competency-based learning
- Hybrid course model
- Modular online eLearning
- Hands-on assessments
- Open lab learning model

Technology to accelerate learning

- Virtual machines for each student
- Hands-on hardware simulations
- Student access to software 24/7
- Virtual interactive simulations
- MOOCs

Faculty professional development

- Quality matters
- Instructional systems design
- Online course development
- Instructing online courses
- Technical content cross-training
- Learning object development



Programmable Controller Course

Allen Bradley MicroLogix and CompactLogix

Motors & Controls

Allen Bradley PowerFlex 70s and 525s

Servo & Robotics

Fanuc LR Mate 200iD

