

HOMEATECHS Northwest State Community College





Hands On Maintenance Education 4 TECHnicianS

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 assessements
- 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

- 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





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