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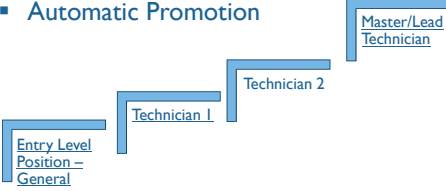
**PURPOSE + KNOWLEDGE +
RESOURCES + APTITUDE +
MOTIVATION**

PERSONNEL

How to Hire and Retain the Best Employees?

Career Ladder

- Training Manual
- Testing/Certification
- Automatic Promotion



CERTIFICATION PROGRAM

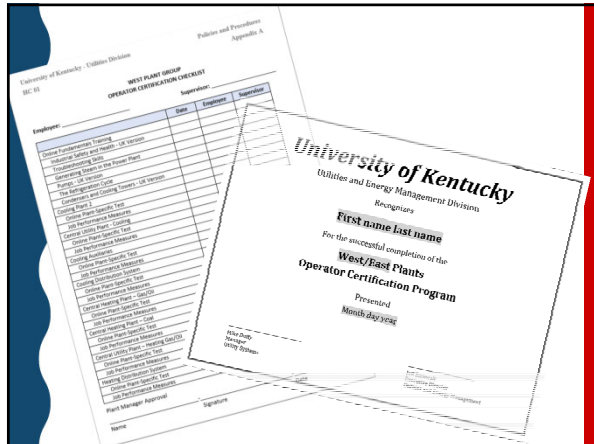
UK - Utilities and Energy Management
HC 01 - Revised 6/26/18
Policies and Procedures

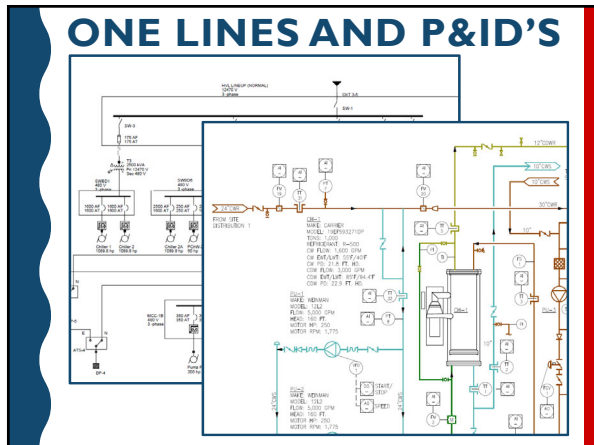
OPERATOR CERTIFICATION PROGRAM

GENERAL
Utility plants are comprised of numerous systems working in unison to provide continuous service to the campus. These systems have multiple high-energy components which must be operated correctly to:

- Provide a safe working environment
- Deliver reliable utilities
- Conform with environmental regulations
- Minimize costs

- System Description
- Standard Operating Procedures
- Online Fundamentals Training
- Online Plant-Specific Training
- Job Performance Measures (practical exams)





ONLINE TRAINING

Training Vendors

- TPC
- Red Vector

Free Training

- Armstrong University
- Schneider University

DIY

- Moodle

UTILITY BOUNDARIES

- Condensate Return Systems
- Building Power Switches
- Building Metering
- Building Controls

Condensate from heat exchangers

Condensate pumped back to plant

Dumped to drain

DATA ARCHIVE

What caused that to trip?

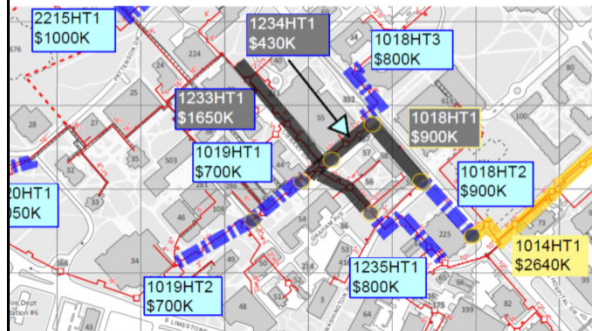
- Troubleshooting and root cause analysis
 - Synchronized timestamp
 - Better sequence of events
- Training – simulate operator screens
- Automated reporting
 - Efficiency
 - Reliability
 - Air permits
- Tailored screens for customers

PLANNING

- CONDITION
- CAPACITY
- LOAD GROWTH

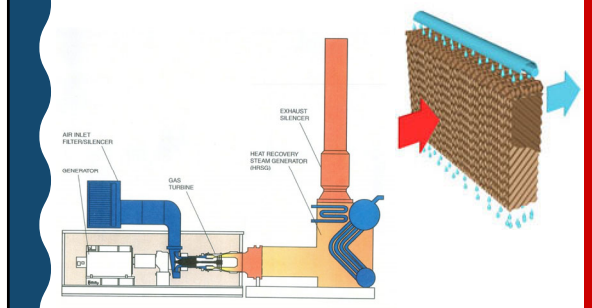
LEVERAGE NEW CONSTRUCTION

Why are we digging up the new landscaping?



HOLISTIC DESIGN

Are there opportunities to synergize future equipment with existing systems?






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- QUANTIFIABLE
- INSPIRATIONAL – NOT STIFLING
- FOCUSING


PERFORMANCE

How well do you operate your utility system?



What's your proof?

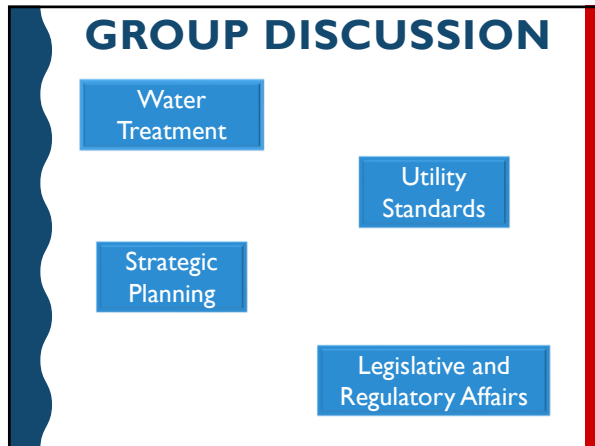
KEY PERFORMANCE INDICATORS



RELIABILITY SAFETY ENVIRONMENT

EFFICIENCY BUDGET

What are your utility KPI's?





This concludes The American Institute of Architects Continuing Education Systems Course

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