

Advanced Energy Retrofit (AER) Auditor Competency Map





Project Goal:

Development of an advanced energy retrofit (AER) competency map

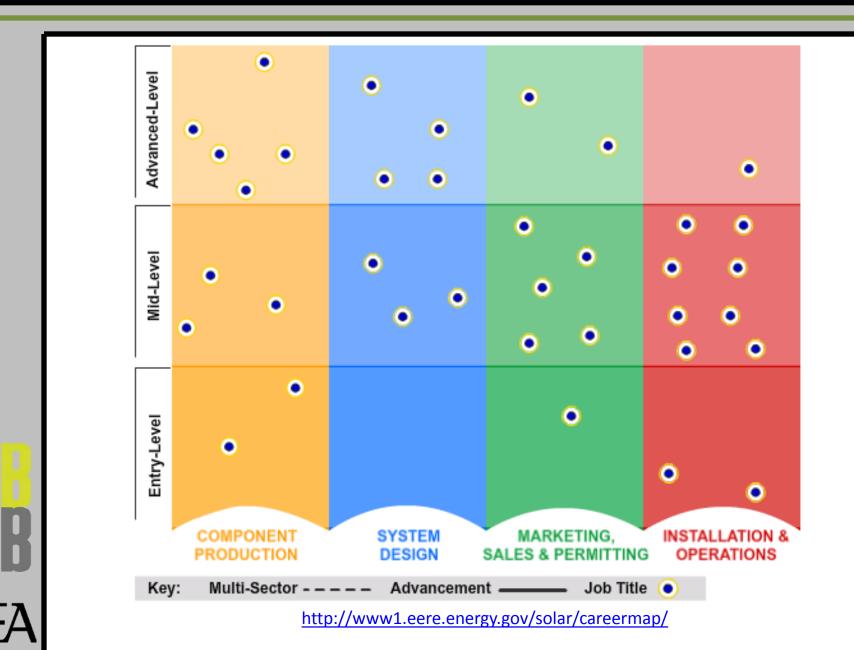
Platform Goal for September 19, 2012:

- Summarize current thinking and efforts
- Seek feedback to determine if an AER competency map makes sense



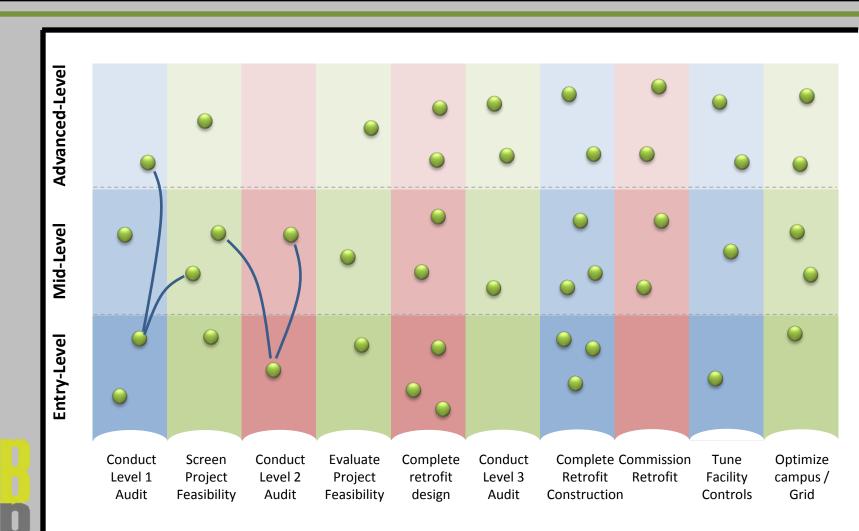
- Review and discussion of an existing competency map: SunShot Solar
- Initial concept development: AER competency map
 - Development approach
- Discussion
 - Does an AER competency map make sense?
 - What should it include?

SunShot Solar Career Map



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Initial Concept



Foundation Training and Experience Base

Building Operator / Technician
Engineering Economics / Finance
Engineering Design / Analysis

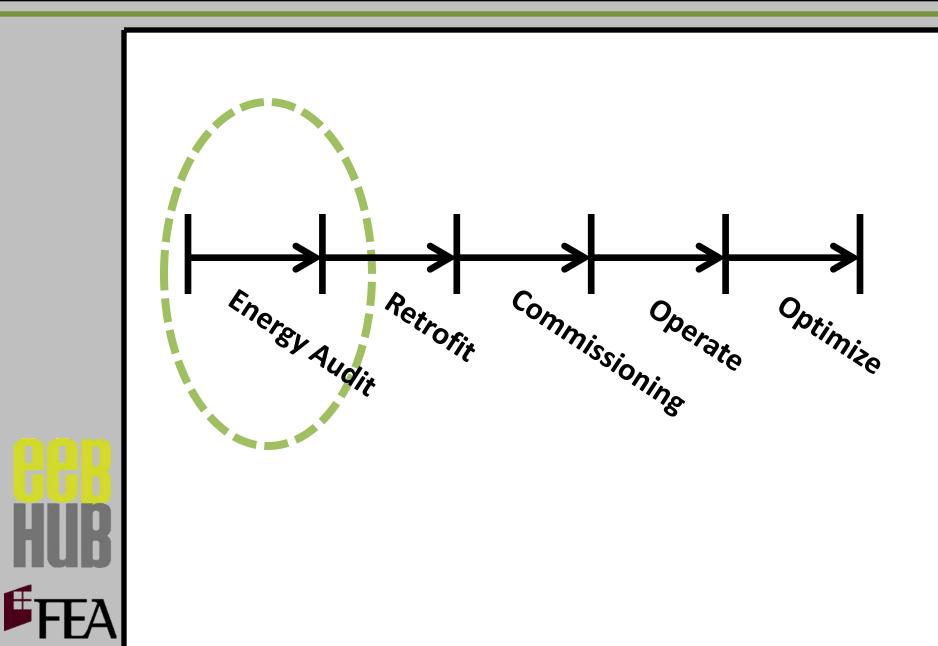
- Identify new career directions with current job openings
 - Individuals entering the workforce for the first time
 - Incumbent workers
- Identify credential and training opportunities
- Evaluate current roles and skill sets of in-house staff
 - Building and facility managers
- Identify what courses to develop, as well as gaps in current curricula
 - Community colleges
 - 4-year degree programs



Using an Academically Rigorous Research Approach



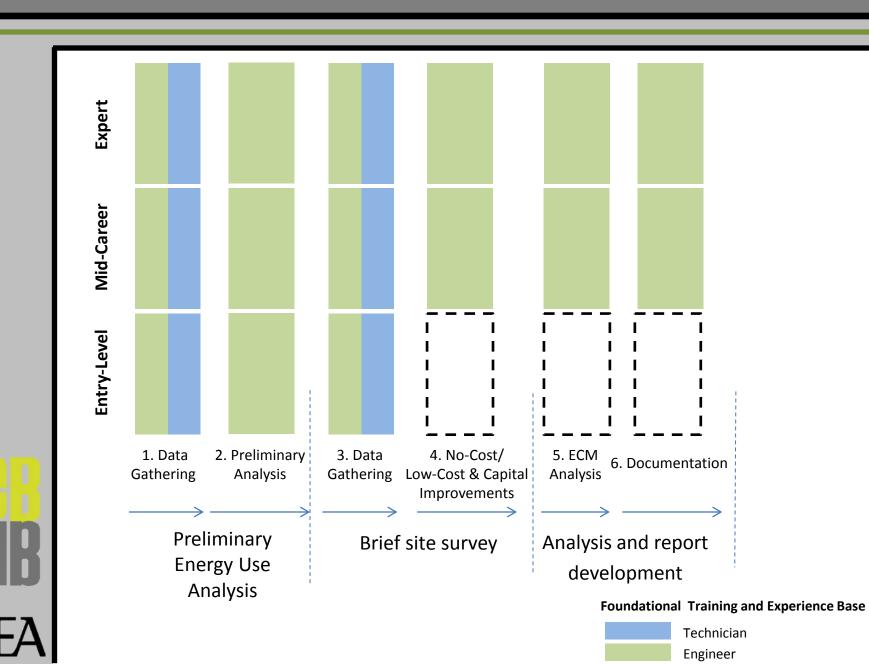
Generalization of Initial Concept



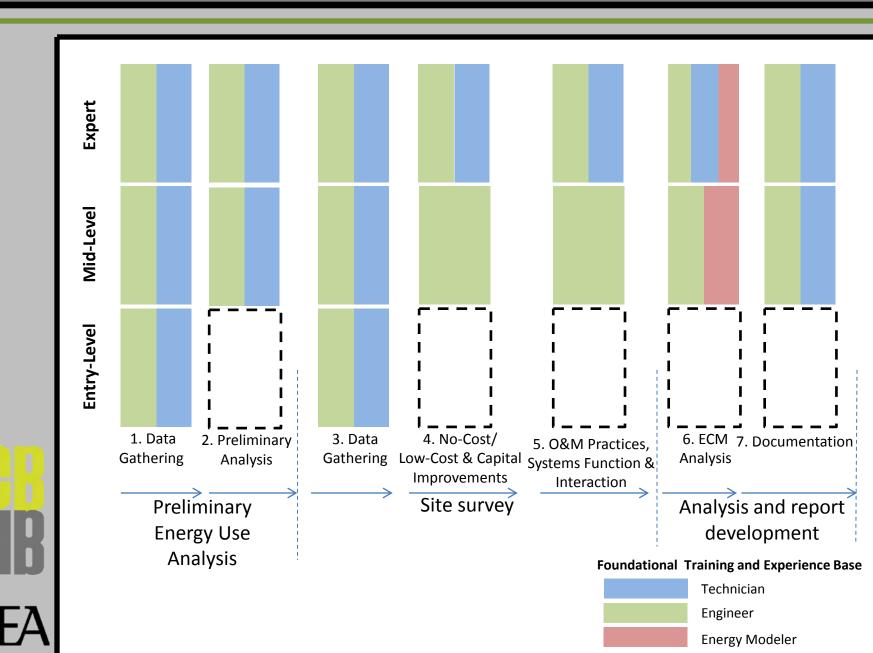
Validation of the x-axis for the Energy Audit Process



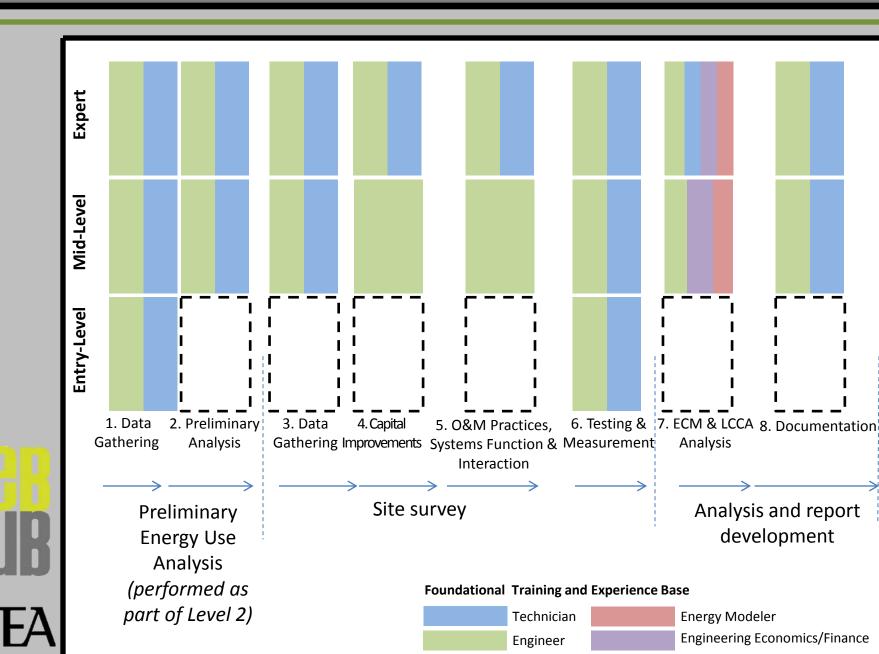
Level 1 Audit: Walk Through Analysis



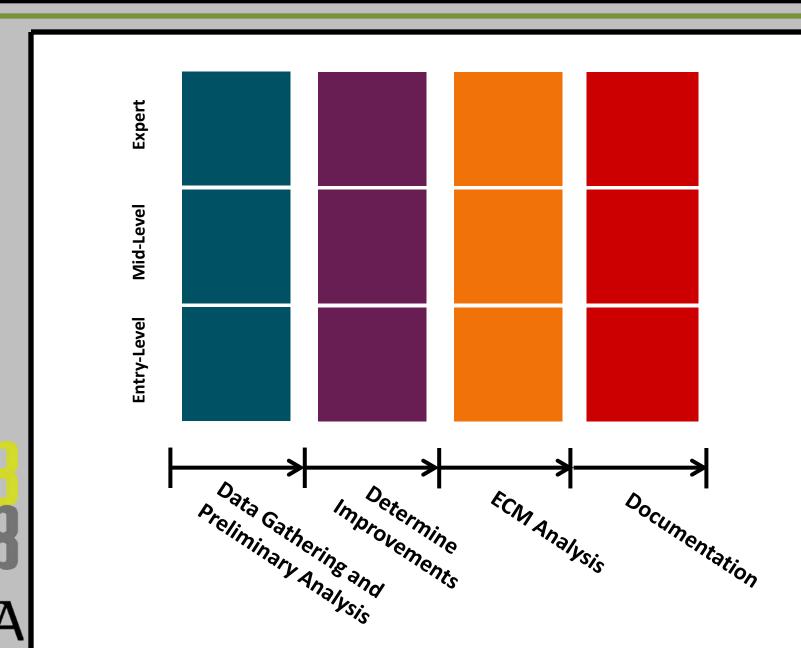
Level 2 Audit: Energy Survey and Engineering Analysis



Level 3 Audit: Detailed Analysis of Capital – Intensive Modifications

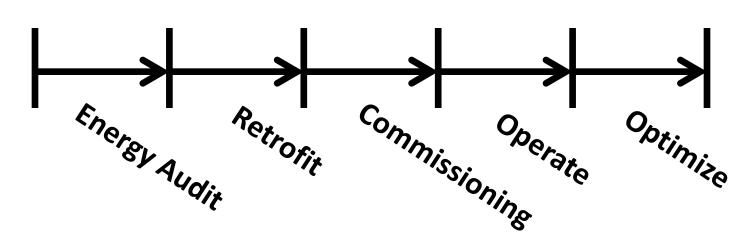


Generalization of Energy Audit Process



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Generalization of Initial Concept



Additional Roles

- Operating engineer/building technician
- Commissioning/ retro-commissioning authority
- Commercial building energy modeler
- Energy/sustainability manager
- Facility manager

Discussion

- Does an advanced energy retrofit (AER) competency map make sense?
- What should be included?
- Who would find such map valuable?



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