

**High Technology Facility
Operations and Management Certification Working Group
Planning Call
May 3, 2012**

Robert Blakey, IFMA
Mike Bobker, City University of New York
Larry Forma, MD Anderson Cancer Center
Peter Holden, Brown University
Corey Losinski, Texas A&M Health Science Center
Dan Poggi, Trane
Adan Rosillo, Laney College
Barbara Wildhelm, Laney College
Phil Wirdzek, I²SL

Working Group Plan

- Develop a charter or [sic] problem statement for the initiative describing the background and mission for the working group.
 - Phil will draw up a draft charter and share with the WG.
- WG participants discussed various approaches including establishing various levels of certificates that would address various facility classifications, i.e., labs of various types, healthcare/hospitals, data centers, cleanrooms.
- Participants discussed inviting other organization such as ASHE, BOMA to the WK or to future meetings reporting the progress of the WG.
- As a follow up to Facility Fusion conference, the WG proposed that:
 - Systematically assess the proposed curriculum to confirm, add or eliminate topics
 - Identify organizations and schools where some of the training may now be available.
 - Identify what components of the curriculum may be unavailable.
 - Identify organizations or schools that are able/willing to develop courses or where existing coursework would need to be enhanced.
 - Engage unions and owners in understanding the need for certified professionals.
- WG participants agreed the first challenge is to establish the value of a certification.
 - What is value to the employer of having a certified employee?
 - Should a series of certificates be offered to be compiled into a comprehensive certification?
 - Involve Labs21 Conference attendees such as data centers, pharmaceuticals, and other high-tech facility representatives.
 - The WG proposed considering multiple certificates and proposing the owner/employee value that would be guaranteed.
- Ideally these would be offered for consideration by an industry advisory group meeting at the Labs21 2012 Annual Conference.

Next steps

- Phil to draft a draft a charter or problem statement and share with the WG.

- I²SL will schedule the first conference call/webinar in late May to confirm the scope of the proposed curriculum, i.e., the first 5 items (see note 1 below).
- Quantifying a justification to support the value of certificates or a certification as the curriculum is being reviewed.
 - Aim to have all curriculum items reviewed by the Labs21 Conference.
- Barbara with Phil and others will develop the plan for the facilitated industry advisory meeting to be held at Labs21 2012.
 - Phil and Barbara will discuss early the week of May 7.
- Next working group meeting will be scheduled for late May.

Note:

1) *What differentiates high technology facility such as a laboratory, data center, cleanroom and hospital from traditional building types? (4 hrs)*

- *Common objectives*
- *Complexity of codes, standards and regulations*
- *Sub-categories for labs, data centers, cleanrooms and hospitals*
- *Use and design layout*
- *Purposes of engineered systems*
- *Health and Safety*
- *Security*

2) *Environmental Health and Safety (EH&S) (8 hrs)*

- *History*
- *Issues and concerns*
- *Organizations*
 - *AIHA*
 - *ASHRAE*
 - *AALAS*
 - *Other AHJ*
- *Codes and Standards Review*
- *Log out/tag out procedures and policies*

3) *Chemical/Biological/Radiological (12 hrs)*

- *What are they*
- *Importance to each facility type*
- *Hazard + Exposure = Risk*
- *Storage and storage types*
- *Areas of increased risk*
- *Personal protection*

4 and 5) *Risk Management through Engineered Systems*

- *Air supply management (12 hrs with tour)*
 - *Fans, ducts, dampers, filters, room discharge*
 - *Differential pressure*
 - *Equipment access and roof equipment*
 - *Design features for risk minimization*
 - *services corridors*
 - *chases*
 - *interstitial*
 - *CFD modeling*
 - *O&M and PM responsibilities*
- *Air exhaust management (12 hrs with tour)*
 - *Hoods*
 - *Cabinets*
 - *Thermal capture*
 - *VAV vs constant volume system*
 - *Manifolding vs single fan exhausts*
 - *Mixed vs separate exhaust systems*
 - *Exhaust stacks and discharge*
 - *CFD modeling*
 - *O&M and PM responsibilities*