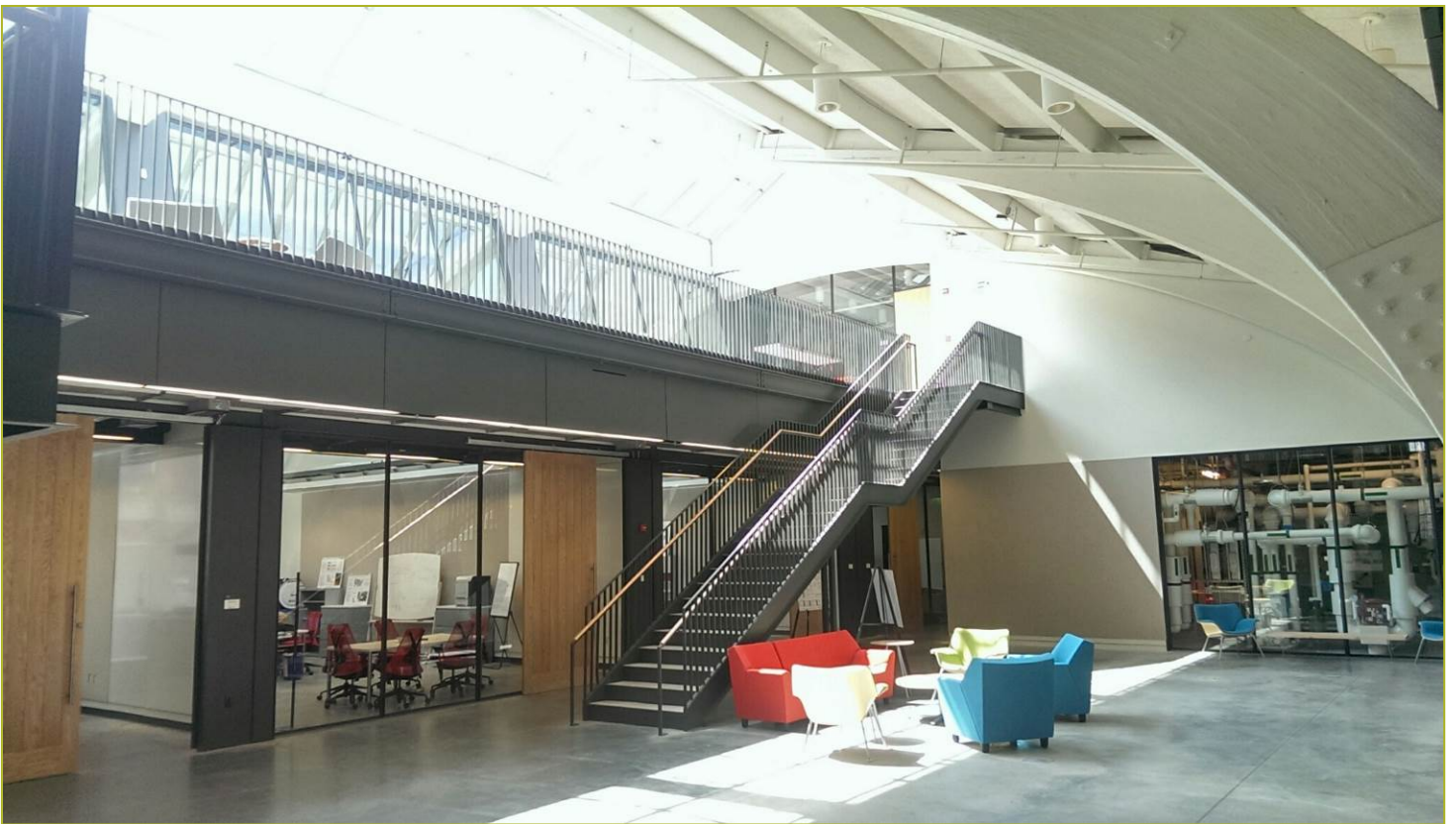


Title: Building Re-Tuning Training Deployment Model

Report Date: April 30, 2016

Report Author: Lisa Shulock



Report Abstract

Project objectives.

Deliverable Requirement: Model for deployment of BRT with BAS is handed off to 2 partners to deliver with new module preparing data for BRT analysis.

Deliverable report: CBEI created a series of training modules and a BRT training guide which was handed off to APPA International and BOMA International. To maintain consistency among all providers of BRT, APPA agreed to maintain the curriculum in a file sharing platform. As of April 30, 2016, information on U.S. Copyright for Building Re-Tuning Training curriculum is not finalized and is waiting for direction from DOE.

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This deliverable includes **training modules** that have been designed to deliver via webinar or in-person. The training modules are:

4A – Value of BRT – understand the purpose of Building Re-Tuning and whether it is right for your organization

4-2 – Observation-Driven Re-Tuning – this is a new version of the training that was created in BP4 for small building re-tuning. It has been modified to include information pertinent to all commercial buildings

4C – Data-Driven Analysis – Mastering BRT. This is a significantly re-worked version of the BRT with BAS training course originally developed by PNNL

4D- Guidance for BRT through BAS interface – this is a new module to teach how to do limited data-driven analysis without requiring the use of ECAM or Open EIS

4E – Trend Data set-up – this is a new module to show how to export trend data from several representative BASs

4F – Using ECAM to Process Data – this is modified from materials created by PNNL

4G – Demand Management – during the pilots we hear that participants were interested in learning more about demand management to reduce energy costs. This is a new module to meet this need.

This deliverable also includes the **Building Re-Tuning Training Guide** which has been modified to include the data-driven program.

PDF version of the PPTs and Training Guide are attached.

One additional deliverable produced by DVIRC is a BRT module created to deliver to small industrial facility managers who are studying LEAN manufacturing processes. DVIRC has combined **Toyota Kata (TK)**, a Continuous Improvement (Lean) methodology to develop everyday habits, skill sets, and capabilities in people, aligned with and in support of achieving the long-term objectives of the organization, with BRT. **Kata** are structured routines that are practiced deliberately so their pattern becomes habit. The Japanese word comes from the martial arts, where Kata are used to train combatants in fundamental moves. Toyota has applied the Kata approach to business processes. The Improvement Kata and Coaching Kata are for training managers and leaders in a new way of doing their jobs.

TK/BRT utilizes building re-tuning as the content and Kata as the process to learn about and embed Toyota Kata habits into the culture. The idea is to introduce Toyota Kata by using BRT as the content area. The 1-day session will include an introduction to the essentials of BRT and a “walkdown” of the building envelope. BRT & TK both use practiced repeatable behaviors to support sustainability.

The summary and course module are attached.

