BEST Center - BAS X Workshop Agenda
Systems Integration and Interoperability

Metropolitan Community College, Omaha, NE

May 31-June 3, 2022

May 31 Tues:

8:00-8:20 Introductions – Larry Chang, BEST Director

8:20-8:50 What is BEST? – Peter Crabtree, BEST PI

8:50-10:00 Project & Hardware Intro – Robert Nirenberg, BEST Co-PI and workshop lead, Metropolitan CC

An overview of the project to be accomplished over the workshop, where it will be similar to industry training and where it won't, and a short discussion of the Contemporary Controls BASView3 and why it was chosen for this project.

10:00-10:15 Break

10:15-12:00 Networking 101 – A practical approach to teaching necessary BAS networking skills w/o an entire networking class

12:00-1:00 Lunch

BACnet International & The Global BACnet Community - Andy McMillan, President BACnet International

1:00-3:00	Introduction to BACnet and other communication protocols – Discussion of the BACnet communication protocol, its current major competitors in North America, and how it works over an owner's network.
3:00-3:15	Break
3:15-3:35	Demonstration of BACnet implementation in BASView3
3:35-4:30	BACnet implementation Lab – Participants will 'discover' BACnet devices to their BASView3 controller and 'learn' BACnet data points into their controller.
4:30-5:00	Day 1 Debrief
5:00	Return to hotel; dinner on your own

June 1 Wed:

8:00-8:15	Day 2 overview
8:15-9:00	What are BAS Alarms?
9:00-10:00	Alarm Implementation Lab Exercise
10:00-10:15	Break
10:15-10:45	Why are Histories/Logs/Trends ESSENTIAL to a BAS?
10:45-12:00	History Implementation Lab
12:00-1:20	Lunch and Lesson Plan Sharing
12:15-12:35	*Modbus over EIA-485 –* Connie Keen, Wake Tech, NC

12:40-1:00	*Measuring Health and Comfort* – Jenny Brinker, NE Wisconsin Tech
1:20-2:20	Data Centers: an Overview – Paul Ehrlich
2:30-3:00	Travel to CyrusOne Data Center
3:00-5:00	CyrusOne Tour & Presentation
5:00	Return to Hotel; dinner on your own

June 2 Thur:

8:00-8:30	Day 2 Debrief & Day 3 Overview
8:30-9:15	Graphics in the Modern BAS – User interfaces and Dashboards
9:15-10:00	Graphics and Dashboards Lab Activity
10:00-10:15	Break
10:15-10:45	Presentation by Contemporary Controls – Joe Stasiek
10:45-12:00	Continue Graphics and Dashboards Lab
12:00-1:00	Lunch and Lesson Plan Sharing
12:15-12:35	*Installation and Setup of DDC Zone Controls* – Rob McNabb, Northshore Tech, LA
12:40-1:00	Lesson Plan TBD

1:00-1:30	What Functions do Schedules Serve in BAS?
1:30-2:30	Schedules Lab Activity
2:30-2:45	Break
2:45-3:45	How Programming Differs Between Controller Level and Head-End
3:45-4:45	Head-End Programming Lab Activity
4:45-5:00	Day 3 Debrief
5:15-6:45	Dinner with Speaker
	Solutions for Mitigating the Effects of Air Conditioning on Climate Change – Sean Huberty, Lansing CC, MI
6:45	Return to Hotel

June 3 Friday:

8:00	Start report outs
1:00	End, takeaway lunch and depart for airport