

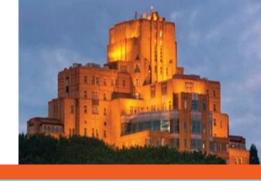


Smart Buildings Center & Tool Lending Library

Carol Lewellen

Energy and Construction Best Practices Summit May 19, 2016





Smart Buildings Center

Technology & innovation Education Diagnostic tools





Operated by the Northwest Energy Efficiency Council

Seed funding from the Department of Commerce

Innovation center & event space

Tool lending library

Data analytics





Innovation Center & Event Space



Event/Training Center



Large Conference Room



Small Conference Room

events@smartbuildingscenter.org





Tool Lending Library



Tool Lending Library at the SBC

FREE!!

- 85 tool types
- Online reservation system
- Loan period up to 4 weeks
- Local pickup or shipped
- Open 9am to 4pm
 Tue., Wed., Thur.





Tool Applications

- Troubleshooting heating & cooling systems
- Measurement of system(s) performance
- Verification of system operating conditions
- Control system troubleshooting
- Energy consumption metering
- Electrical system maintenance
- Solar energy survey
- Testing and balancing air & water systems
- Measuring & managing plug energy use





Airflow Measurements





- Flowhoods
- Vane Anemometers
- Thermal Anemometers
- Manometers











Water Flow Measurements





- Liquid Manometer
- Ultrasonic Flow Meter
- BTU Meter











Indoor Environment









- Temperature
- Humidity
- Surface temperature
- Thermal Imaging
- CO2







Sound Measurement & Leak Detection





- Sound levels
- Ultrasonic Leak
 Detector
- Refrigerant Leaks
- Gas leaks











Lighting & Solar Surveys





- Light meters
- LED light meters
- Ballast detectors
- Surface reflectance
- Solar irradiance











Electrical & Power





- Multi-meters
- Motor loggers
- Contact loggers
- Power meters













Data Loggers











- Temperature
- Humidity
- CO2 & CO
- Lighting
- Plug loads
- Air pressure
- Occupancy
- Water pressure





Tool Reservation Process

- 1. Complete and submit the Tool Request Form
- 2. Reserve the tools on the MyTurn reservation system
- 3. Make arrangements for tool pickup or shipping
- 4. Return tools to the Tool Lending Library when finished





Tool Request Form

we're open! Cneck out our Iooi Lending Library...



Search this website

Q,

HOME

ABOUT SBC

TOOL LIBRARY

USE OUR SPACE

SMART + EFFICIENT

SBC NEWS

You are here: Home / Tool Lending Library / Tool Request Form

Tool Request Form

Fill out this form to access resources at the Tool Lending Library. Borrowers must read and agree to our **Lending Policy** and **Customer Agreement** prior to submitting a request. We typically respond via email within 3 business days.

Borrower Information

TOOL LIBRARY CONTACTS

Carol Lewellen

Tool Librarian

S 206-538-0685

carol.lewellen@smartbuildingscenter.org

Duane Lewellen

Sr. Project Manager

\ \ \ 3 206-538-0856





Tool List & Application Notes

Tool Inventory

Available tools include loggers, logger sensors, power and light meters, air flow tools and more. Review our **Tool List (PDF)**. If you don't see a specific tool you need, please contact us.

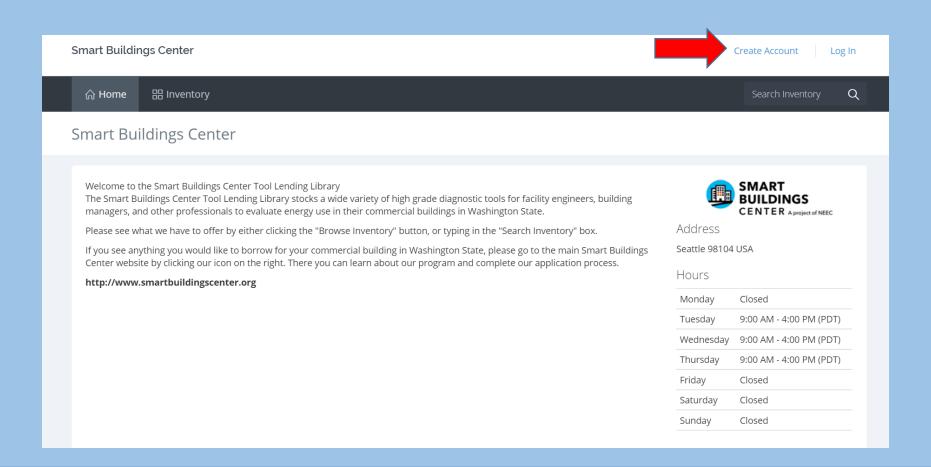
Tool Resources - Notes, Guides, & Information

Our **library of videos and application notes** has information on measurement techniques, step-by-step instructions for some tools, and useful tips. It's a great place to start exploring all the potential applications of our inventory.





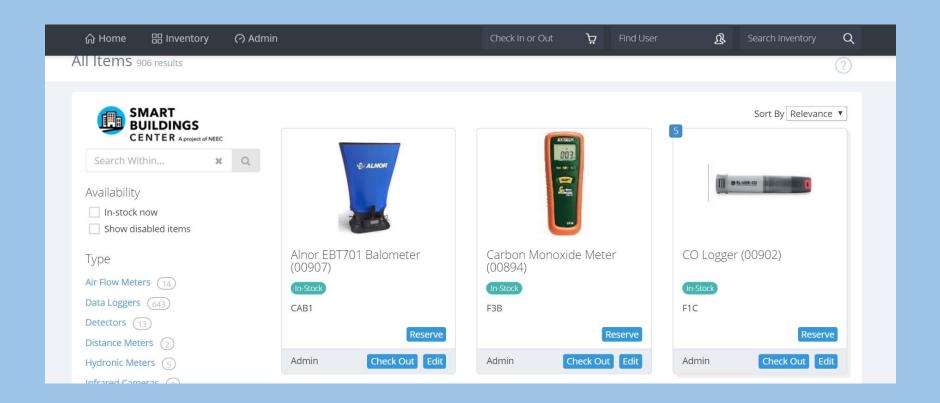
Establish Account on Tool Reservation System







Reserve Tool & Check Out







Tool Demonstration Workshops

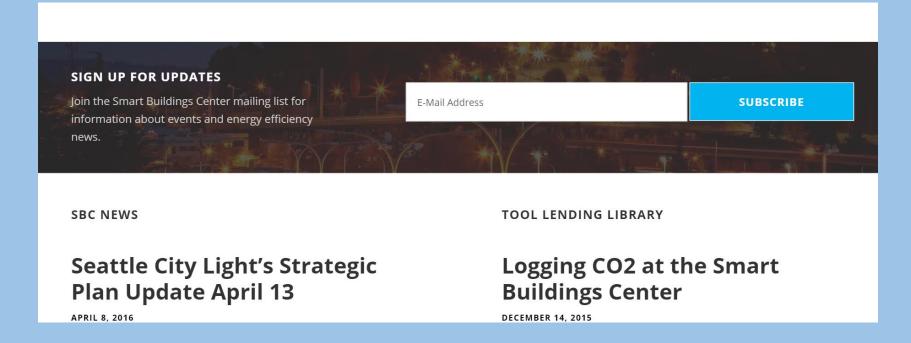


Hands-on demonstration of the tools and applications by tool manufacturers and industry experts





Signup For SBC Updates







We need your help with case studies



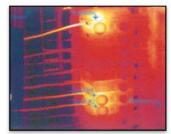
CASE STUDY

Everett Community College avoids electrical problems



"We weren't measuring energy use so much as we were looking for irregularities on the breakers" Steve Lyons said. "Our

When you have a college campus with 1 million square feet in 24 buildings and many electrical panels getting up there in age, preventative maintenance should be a top priority. But, maintenance and electrical staff's time is often taken up with work order requests or hot/cold calls, and PM is given a back seat – or as known in the industry 'run to fail'. This can cause huge disruptions for students, staff and faculty, especially when much of the campus depends on electricity to run their computers, classes and work stations. Electrical Supervisor,



Steve Lyons, attended an event where The Smart





Tool Lending Library Contact Info

Website: http://www.smartbuildingscenter.org/tool-library/

Contact: Duane Lewellen, Project Manager

206-538-0856

duane.lewellen@smartbuildingscenter.org

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