

## EBCx Services

Has over 40 years of experience making buildings operate safely, comfortably, and energy efficiently.

Our business started as a family owned mechanical contractor in Miami, FL, founded by Cal Gordon in 1958.

Scott Gordon, Cal's son started working in the business in 1973. With over four decades of experience in the mechanical contracting, controls, engineering and energy services industries, Scott established EBCx Services in 2016.

The history behind EBCx Services provides decades of hands-on experience helping to make the built environment operate safely, comfortably and energy efficiently. We roll up our sleeves and do what it takes to make buildings work.

### Services

- Testing, Adjusting & Balancing (TAB) of HVAC Systems
- Existing Building Commissioning (EBCx, RCx)
- New Building Commissioning
- Performance Verification
- Control System Retuning
- Trouble Shooting / Diagnostics
- Building Enclosure Testing
- Energy Audits / Assessments
- Indoor Air Quality (IAQ) Investigations
- Thermal Infrared Imaging / Analysis
- Training

### Credentials

- NEBB Certified Professional
- Class A Certified Air Conditioning Contractor Florida (CAC021304)
- Certified Energy Manager (CEM)
- Certified Measurement & Verification Professional (CMVP)
- Tridium Niagara N4 Certified
- Certified Indoor Air Quality Professional (CIAQP)
- Certificate Member (CM) with RSES
- LEED AP O+M

### Associations

- NEBB
- ASHRAE
- Association of Energy Engineers (AEE)
- Refrigeration Service Engineers Society (RSES)

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Testing, Adjusting  
and Balancing (TAB)  
for  
Heating, Ventilating  
and Air Conditioning  
(HVAC) Systems



Making Buildings  
Work...Safely,  
Comfortably, and  
Energy Efficiently

## Testing/Adjusting/Balancing-TAB

### What is TAB?

**Testing** is the use of specialized instruments to measure temperature, humidity, pressure, rotational speed, electrical characteristics, velocity, and air and water quantities for evaluation of HVAC equipment and system performance.



**Adjusting** is the final setting of balancing devices such as: dampers, valves and automatic control devices like thermostats, pressure controllers and computer controls.

**Balancing** is the methodical regulation of system air and water flows, using acceptable procedures to achieve the specified flow quantities.

### TAB is Required by Code

The International Mechanical Code (IMC) has been adopted by many states and cities across the country. IMC 2009, 2012 and 2015 editions require balancing of supply and exhaust air ventilation systems to deliver design air flows rates.

The International Energy Conservation Code (IECC) 2012 edition has additional TAB requirements under Section C408, System Commissioning.

Far too often, buildings intended to deliver the highest levels of safety, energy efficiency and comfort, are failing to live up to their potential.

Whether a building is newly constructed or existing, TAB makes sure a building works as it was designed.

### TAB for New Buildings/Systems

TAB for new buildings or systems adjusts the HVAC system to perform as the designer intended. If the system design and installation meet the comfort needs of the building occupants, TAB fine tunes occupant comfort levels while keeping energy use to the lowest level possible.

### TAB for Existing Buildings

TAB work conducted in existing buildings discovers significant opportunities towards system enhancements that improve IAQ, increase occupant comfort and decrease building operating costs.

When existing HVAC equipment needs replacement, TAB is used to establish current system performance, diagnose problems and provide essential information needed prior to an HVAC system retrofit. Testing and diagnostics of the air and water distribution systems provides valuable information to the designer so that actual field conditions are known prior to design work.

## NEBB

Established in 1971, NEBB is an international certification association for firms that optimize high performance building systems.

NEBB has strict requirements for certification, including college level written exams and hands-on practical exams. NEBB certification is a detailed and demanding process.

Additionally, NEBB requires certified firms to own a complete set of instruments and maintain current calibration. NEBB Certified Professionals are required to complete annual continuing education credits to stay abreast of developments in the industry.

**EBCx Services** is a NEBB Certified Firm under the following disciplines:

- TAB (Air/Water)
- Building System Commissioning
- Retro Commissioning
- Building Enclosure Testing

EBCx Services has extensive training, experience and knowledge in: HVAC Contracting/Service, TAB, Commissioning, Existing Building Commissioning, Energy Auditing and Indoor Air Quality (IAQ) Investigations.

EBCx Services is a multifaceted technical firm that provides engineering and field services to help our customers succeed.

