

LEED® GOLD CERTIFIED GREEN BUILDING PROJECT PROFILE

CUYAHOGA COMMUNITY COLLEGE
ADVANCED TECHNOLOGY TRAINING CENTER
METROPOLITAN CAMPUS, CLEVELAND, OHIO



LEED® Credits Achieved

ATTC Project

METRO CAMPUS

LEED Rating System: New Construction 2009

Gold	65*
Sustainable Sites	22/26
Water Efficiency	8/10
Energy & Atmosphere	12/35
Materials & Resources	6/14
Indoor Environmental Quality	12/15
Innovation & Design	2/6
Regional Priority	3/4

*Out of possible 100 points + 10 bonus points



Achievements of project design & construction:

43% reduction in domestic water usage

100% reduction in landscape watering

26% energy use reduction

89% construction waste diverted from landfill

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PROJECT BACKGROUND

Cuyahoga Community College (Tri-C®) collaborated with Braun & Steidl Architects on the design of the new Advanced Technology Training Center (ATTC) on Tri-C's Metro Campus. The 50,000 square foot learning facility with a site and construction budget of \$13,115,000 features versatile high bay spaces, classrooms, and administration for workforce development programs.

The ATTC has been certified at the Gold level under the US Green Building Council's Leadership in Energy and Environmental Design (LEED®) program. The ATTC is energy efficient, takes advantage of daylight, reduces storm water run-off, has native and drought resistant landscaping, is frugal with water resources, provides a healthy indoor environment, and enhances the academic experience.

STRATEGIES AND RESULTS

The U.S. Green Building Council implemented the LEED program to encourage owners and professionals to design, build, and operate more environmentally appropriate buildings. The list below details design elements of the ATTC and indicates the number of points pursued out of the total credits possible within each of LEED's seven available categories.

Sustainable Site Features

22 points out of 26 possible

- Constructed on a previously developed site, in close proximity to mass transit and other existing urban infrastructure.
- Rain gardens and a water retention basin allow all stormwater to be managed on-site.
- White roof and light-colored paving reduces heat absorption during cooling season.

Water Efficiency

8 points out of 10 possible

- High-efficiency plumbing fixtures reduce water consumption by 43%.
- Eliminated the need for landscape irrigation by utilizing native plants.

Energy and Atmosphere

12 points out of 35 possible

- 26% savings in utilities, reducing annual costs by \$15,000.
- 3-D modeling program optimized the amount of insulation and energy efficiency of systems.
- Building orientation and windows take advantage of natural light.

Materials and Resources

6 points out of 14 possible

- Exposed structural elements reduce materials needed to cover floors, walls, and ceilings.
- Use of materials from regional sources or made using recycled content reduced transportation costs, emissions, and kept money in the local economy.
- 89% of construction waste diverted from landfills.

Indoor Environmental Quality

12 points out of 15 possible

- HVAC system kept clean during construction, and permeable materials were protected from moisture exposure.
- Outdoor air monitored for quality.
- Extensive use of low-volatile organic compound (VOC) emitting building materials.

Innovation in Design, or Exemplary Performance

2 points out of 6 possible

- Points achieved for education through building signage and from members of the project team being LEED Accredited Professionals.

Regional Priority

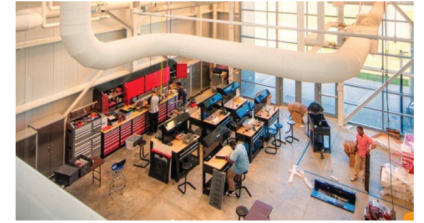
3 points out of 4 possible

- Regional priority credits account for localized issues that may not be found in other regions of the United States. ATTC achieved additional credits for stormwater quality and quantity control, and for construction waste management exceeding 75% diversion.

Tri-C recognizes that its commitment to education and community includes a sense of responsibility to our environment. Tri-C will lead by example by investigating, developing, and promoting sustainable policies, practices, and curricula, with the goal of achieving sustainability throughout the College. The College also aspires to instill in our students, faculty, and staff a sense of stewardship towards the environment by giving them the information and support to continue sustainability efforts beyond the campus environment. We must strive to prepare our students, faculty, and staff to be leaders in creating and promoting a culture of diversity, sustainability, and environmental sensitivity through our community.

Sustainability at Tri-C means achieving the College's educational and community missions with a sense of responsibility for preserving the environment, promoting the economy, and improving society as a whole.

Cuyahoga Community College is committed to building and operating healthy environments for work and learning. Cuyahoga Community College adopted the USGBC LEED system to ensure that all future construction supports a healthy environment.



Building Owner

Cuyahoga Community College

Architect

Braun & Steidl Architects

Structural Engineer

Ralph Tyler & Associates

MEP Engineer

Karpinski Engineering

Landscape Designer

The Edge Group

Civil Engineering

CT Consultants

Construction Manager

Heery International

Owners Representative

Gilbane Building Company

Commissioning Consultant

URS

Building Area

50,000 Square Feet

Site Area

5 Acres

Parking Capacity

n/a (existing campus parking)

LEED Certification Received

Gold, August 2013

Construction Schedule

Substantial Completion August 2012

ABOUT LEED

The LEED® Green Building Rating System™ is the national benchmark for the design, construction and operations of high-performance green buildings. Visit the U.S. Green Building Council's web site at www.usgbc.org to learn more about LEED and green building.

