LEED® CERTIFIED GREEN BUILDING PROJECT PROFILE

CUYAHOGA COMMUNITY COLLEGE

PUBLIC SAFETY SIMULATED SCENARIO VILLAGE ADMINISTRATIVE CENTER

WESTERN CAMPUS, PARMA AND PARMA HEIGHTS, OHIO

LEED® Credits Awarded

Public Safety Simulated Scenario Village Administrative Project

WESTERN CAMPUS

LEED Rating System: New Construction 2009

Certified	45*
Sustainable Sites	8/26
Water Efficiency	6/10
Energy & Atmosphere	10/35
Materials & Resources	6/14
Indoor Environmental Quality	10/15
Innovation & Design	2/6
Regional Priority	3/4

*Out of possible 100 possible points

U.S. GREEN BUILDING COUNCIL LEED CERTIFIED USGBC

Achievements of project design & construction:

38% energy use saving

33% reduction in domestic water usage

82% construction waste diverted from landfill

100% reducting in landscape watering

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PROJECT BACKGROUND

Cuyahoga Community College (Tri-C®) collaborated with DS Architecture on the design of the Public Safety Training Center Simulated Scenario Village Administrative Center at Tri-C's Western Campus. The 15,000 square foot building hosts administrative and control functions, training and conference spaces, locker rooms, and equipment storage for training at the larger Public Safety Training Center Simulated Scenario Village.

The Public Safety Training Center Simulated Scenario Village Administrative Center was Certified under the U.S. Green Building Council's Leadership in Energy and Environmental Design (LEED®) system. The Administrative Center is energy efficient, reduces storm water run-off, has native and drought resistant landscaping, is frugal with water resources, and provides a healthy indoor environment.

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 and construction elements of the Public Safety Training Center Simulated Scenario Village Administrative Center and indicates the number of points received out of the total credits possible within each of LEED's seven available categories.

Sustainable Site Features *8 points out of 26 possible*

- On-site stormwater management features reduce the quantity and improve the quality of stormwater leaving the site.
- White roof and light-colored concrete around the building reduce the building and site's heat absorption during cooling season.

Water Efficiency *6 points out of 10 possible*

- High-efficiency plumbing fixtures reduce water consumption by 33%.
- Eliminated the need for landscape watering by utilizing native plants.

Energy and Atmosphere *10 points out of 35 possible*

- 38% reduction on utilities use, reducing annual costs by approximately $4,500 a year.

Materials and Resources *6 points out of 14 possible*

- Use of materials from regional sources or made using recycled content reduced transportation costs, emissions, and kept money in the regional economy.
- Over 82% of construction waste diverted from landfills.

Indoor Environmental Quality *10 points out of 15 possible*

- Extensive use of low-volatile organic compound (VOC) emitting interior finishes to improve indoor air quality.

Innovation and Design Process *2 points out of 6 possible*

- Innovation points received for exemplary use of regional materials and for a LEED
- Accredited Professional being part of the project team.

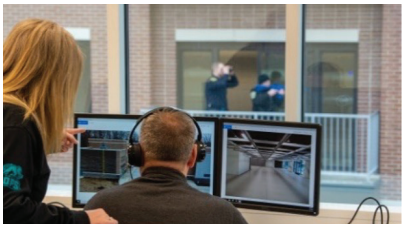
Regional Priority *3 points out of 4 possible*

- Points for stormwater design quantity and quality control and construction waste management.

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 toward 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
DS Architecture

Safety Consultant
Legat Kingscott

Structural Engineer
Thorson Baker + Associates

MEP Engineer
Karpinski Engineering

Landscape Designer
Knight & Stolar

Civil Engineering
Thorson Baker + Associates

General Contractor
Infinity

Owners Representative
Constructability

Commissioning Consultant
Thorson Baker + Associates

Building Area
15,000 Square Feet

Parking Capacity
44 Spaces

LEED Certification Received
Certified

Construction Schedule
Completed January 2020

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.

www.usgbc.org
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Cuyahoga Community College®