



// BUILDERS' ADVANCEMENT CENTER //

To advance contractor
productivity and
quality construction
through **education**
and **technology**, and
to recruit a diverse
construction
workforce.



// EMPOWERING BUILDERS,
ADVANCING CONSTRUCTION //

Located in The Builders' Association Education & Training Center
105 West 12th Avenue • North Kansas City, MO 64116
816.471.0880 • www.buildersassociation.com

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Classroom Activities

Navigating a 3D Model Class -

Participants will learn how to navigate a 3D model using a variety of site technology tools (tablet, cell phone, and jobsite kiosk).



Basics of Plan Reading -

Participants will learn common symbols, types of drawings, and how to navigate a set of drawings.



Basic Construction Measurements -

Participants will learn how to read a ruler, tape, & scale; measure objects, and how to mark areas based on given dimensions.

Google SketchUp -

Participants will create as-built 3D models of building assemblies in the Advancement Center lab, including a two-story steel mezzanine, using Google Sketchup.

Soft Skill Development -

Participants will learn to speak publicly, organize thoughts, improve emotional intelligence, and communicate through letters and e-mails.

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Fall Protection Activity

Participants will put on a harness with two lanyards and practice safely navigating a two-storey mezzanine.

Drone Chamber Activity

Participants will learn how drones are used in the industry and get to fly a drone inside the drone chamber (while they and others watch from outside the chamber).



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**EXOSKELETON
TECHNOLOGIES**

HUMAN AUGMENTATION FOR THE 21ST CENTURY

STRENGTH
LIFT UP TO 36 POUNDS
EFFORTLESSLY

ENDURANCE
REDUCE MUSCLE FATIGUE
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LOCKHEED MARTIN

The advertisement features a central image of a man wearing the Lockheed Martin Fortis exoskeleton, which is a yellow and black device that augments human strength and endurance. The man is holding a large, orange and black hydraulic arm. To the left of the man are three inset images showing different views of the exoskeleton. The background is a dark, textured wall. The text is in a bold, sans-serif font, with yellow and white colors used for emphasis.

Human Augmentation

Participants will experience innovative, technological solutions to workforce productivity challenges.

Source: <http://www.lockheedmartin.com/content/dam/lockheed/data/mfc/photo/exoskeleton/mfc-fortis-overlay.pdf>

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PVC Bridge Activity

Participants will plan out and assemble a PVC Bridge. In an extended activity, participants will apply estimating, planning, scheduling, and human resource management principles as they assemble the bridge.



Simulation Zone

Participants will fly a drone simulator, walk-through buildings using virtual reality, and utilize a job-site kiosk.



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Bricklayers Apprenticeship Coordinator

5 views • 2 days ago



Carpenters Apprentice

1 view • 2 days ago



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Painter Apprentice

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Bricklayers Apprentice

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Ironworker Apprentice

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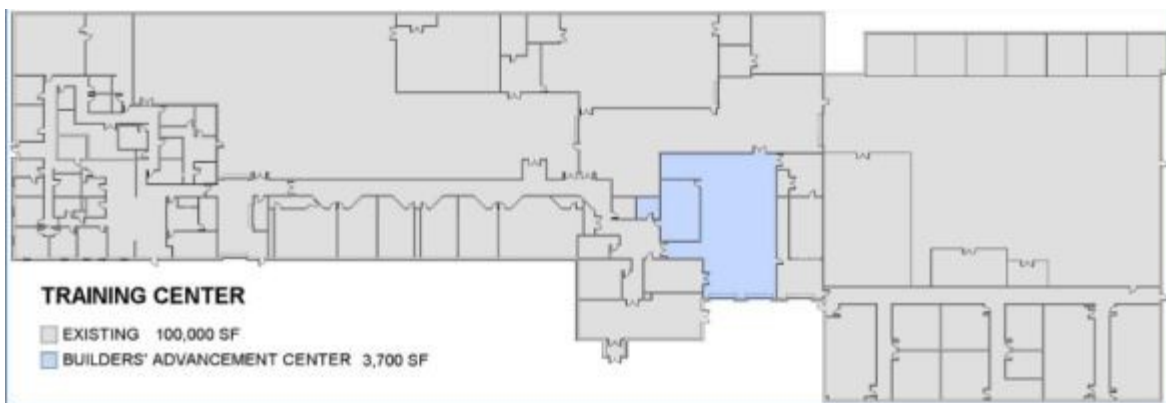
Laborers Apprentice

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Laborers Apprenticeship Coordinator

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Introduction to the Trades

Participants will learn about careers in Bricklaying, Carpentry, Cement Masonry & Plastering, Drywall Finishing, Glazing, Ironworking, and Painting.