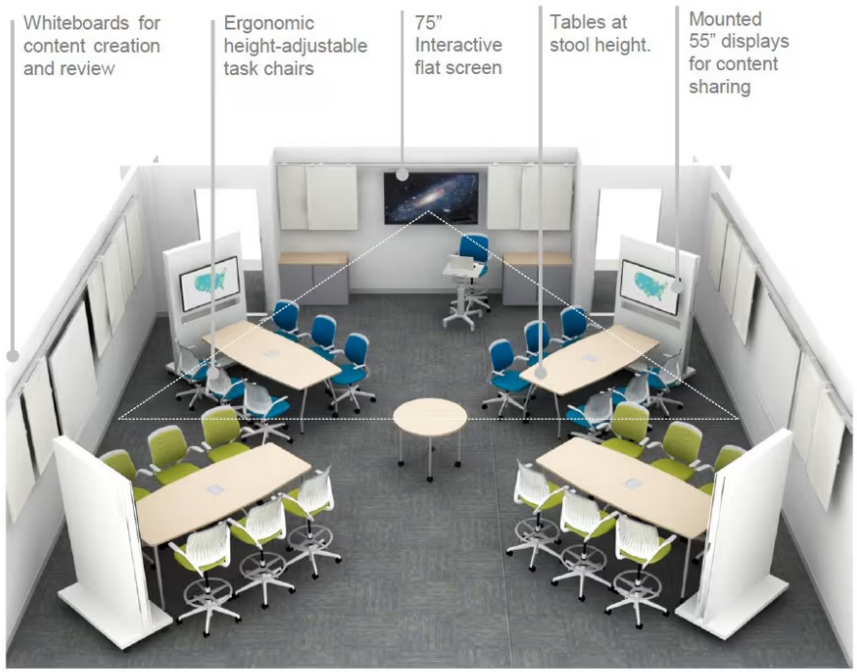
PROAV DESIGN GUIDE

Active Learning Workshop

Collaborative classroom for 16-24 with mobile 55" displays, 75" touch, and Show-Me cable sharing.



Built on four principles of active learning.

The Active Learning Workshop is a flexible, collaborative environment where an instructor can send video to every display, or learners can break into small groups and share their own laptop content on the display nearest them. It works equally well for university classrooms, corporate training, large-team huddles, and innovation centers.

The design is grounded in four principles: display triangulation so every seat has a clear sightline, vertical work surfaces for group output, seamless transitions between whole-class and breakout modes, and a square room footprint that keeps groups equidistant from instruction and from each other. Four mobile 55” displays support up to 6 laptop connections for content sharing during group work. Each participant connects and selects their laptop for display using “show me” cables with a blue light to indicate which source is active. Cables are accessible at the recessed cable management system in the table.

Using the 10” touch panel, the facilitator can select their computer, a streaming player, a document camera, or the active source from any of the four displays to share onto the wall-mounted 70-75” flat screen display. Conversely, the facilitator can push their content to all four displays.

Each group station has up to six "Show Me" laptop cables with a blue indicator light recessed into the table - learners pick up a cable, plug in, press to share. The Crestron control system handles routing, audio, and recall of preset layouts so the instructor never has to leave the front of the room.

FOOTPRINT

40' x 70'

880 sq ft Seats: up to 24

TECHNOLOGY

$75K-$95K

Camera tracking, video, audio & control

FURNITURE

$175K-$260K

Large Table & Seating for 20 participants

KEY FEATURES

- Dante Ceiling Audio
- Show-Me Cable Sharing
- DM-NVX 4K Routing
- Crestron Control
- 75" Avocor Touch
- 4x Mobile 55" Displays

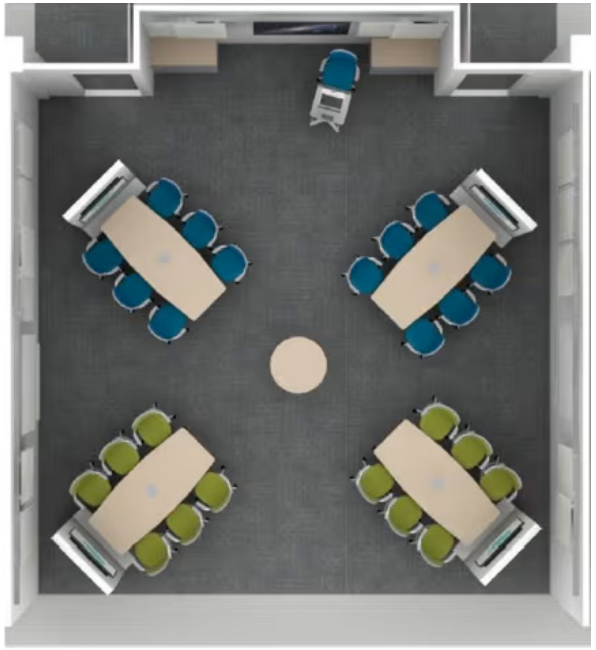
PRICING NOTE

All pricing is conceptual and based on the wide range of product choices available. Each space has unique considerations: acoustics, build-out, labor, and infrastructure.

SPECIFICATION SHEET

Recommended Equipment Schedule

Curated AV stack used in this Active Learning Workshop reference design.



▲ Plan View

Quad 55" mobile + 75" touch

Reposition for breakout or whole-class mode.

Show-Me cable hub

Up to 6 laptops per group; blue LED = active source.

TECHNOLOGY PRODUCTS

DISPLAYS

- Avocor 75" Interactive Touch Display - front of room, instructor + whole-class share
- LG 55" UHD Commercial Display 700-nit, webOS (4x) - one per group station
- Mobile VESA display cart (4x) - rolling for breakout / whole-class reconfiguration

VIDEO DISTRIBUTION

- Crestron DM-NVX-E30 4K60 4:4:4 HDR network AV encoder (6x)
- Crestron DM-NVX-D30 4K60 4:4:4 HDR network AV decoder (5x)
- Netgear M4250 GSM4230PX 24-port AV-line PoE+ switch (480W)

INPUT SOURCES

- "Show Me" laptop cables w/ blue active-source LED - up to 6 per group station
- Recessed in-table cable management cubbies
- Wireless presentation (BYOD) for guest devices

SOUND SYSTEM

- Shure IntelliMix P300-IMX audio conferencing DSP
- SoundTube IPD4-CM52-BGM-II 5.25" Dante ceiling speaker (4x)
- Distributed coverage tuned for both whole-room and breakout modes

CONTROL & MANAGEMENT

- Crestron TSW-1070 10" tabletop / wall-mount touch panel
- Crestron VC-4 server-based room control
- Preset recall: Whole Class, Breakout, Present from Lectern

FURNITURE PRODUCTS

- Square training tables w/ recessed cable management (4x group stations)
- Mobile cart per 55" display with integrated cable channel
- Instructor lectern + collaboration whiteboards on vertical surfaces

TIMELINE

DESIGN	PROCUREMENT	PRODUCTION	INSTALLATION
8 weeks	6 weeks	6 weeks	4 weeks