

Daily Agenda

Today is:

TOPIC Today:

**Wiremold #4 - TEE Fitting, S4 Four-Way Switching System,
Raceway Installation**

What should I know and be able to do by the end of class?

Objective: SWBAT

Develop a schematic diagram for a multi-location switching circuit (S3–S4–S3).

Draw a wiring diagram showing travelers, common, and feed paths through a 3-way → 4-way → 3-way setup.

Apply NEC Article 386 (Surface Metal Raceway) to installation decisions.

Create a full materials list for all fittings, boxes, devices, and conductors.

Begin rough installation using accurate measurements and proper raceway fittings.

How am I learning it?

Activator:

Review the Wiremold #4 diagram:

TEE fitting

S3 → S4 → S3 switching sequence

Feed and Load (L)

Two couplings (C, C)

Heights: 30" AFF and 60" AFF

Create the schematic diagram for the 3-way / 4-way system.

Draw the wiring diagram, labeling:

Feed / Line hot

Traveler pairs

Common terminals on both S3 switches

Four-way "in/out" traveler routing

Load leg

Build a materials list, including:

Wiremold raceway sections

TEE fitting

Couplings

Boxes

S3 switches (2×)

S4 switch (1×)

Device covers

Conductors (#12 black/red/white/green)

Begin Rough Installation:

Mount boxes at 30" & 60" AFF

Install raceway base and TEE

Pull travelers and feed conductors

Instructor rough check

Activity:

Closure / Ticket out:

Explain the difference between the wiring inside a four-way switch and a three-way switch, and why the traveler pairs must stay consistent.

Homework:

Complete the wiring diagram and verify that all traveler pairs enter and exit the S4 correctly.

I will know I've got it when:

My schematic and wiring diagrams accurately represent the S3–S4–S3 switching path.

My materials list is complete and accurate.

My rough installation passes instructor inspection.