

Daily Agenda

Today is:

TOPIC Today:

Wiremold #3 – Two-Gang Box Layout, Receptacle & Switch Wiring, Raceway Installation

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

Objective: SWBAT

Develop a **schematic diagram** for Wiremold Job #3.

Draw a **wiring diagram** including:

- **S1 switch A**
- **S1 switch B**
- **Receptacle (6FCI)**
- **Feed path & grounding**

Apply **NEC requirements** for surface raceways (Article 386).

Create a **complete materials list** for the dual-box Wiremold assembly.

Begin rough installation using proper measuring, mounting, and device layout.

How am I learning it?

Activator:

Discuss why commercial spaces often require Surface Raceway Systems and how dual-gang boxes allow multiple device configurations.

Activity:

1. Review the Wiremold #3 layout:

- Two 2-gang boxes
- 6FCI receptacle
- S1 switches (A & B)
- Couplings and raceway
- Feed routing

2. Draw the schematic diagram showing switching and receptacle feed.

3. Draw the wiring diagram labeling:

- Hot feed
- Neutrals
- Grounds
- Switched leg(s)

4. Generate a materials list including:

- 2× 2-gang Wiremold boxes
- Wiremold raceway (30" & 60" AFF layout)
- 6FCI tamper-resistant receptacle
- S1 switches
- Couplings (C, C)
- Device covers & screws

- **#12 conductors (black/white/green)**

5. Begin Rough Installation:

- **Mount boxes at 30" and 60" AFF**
- **Install raceway base**
- **Pull conductors**
- **Instructor rough inspection**

Closure / Ticket out:

Explain how the feed is distributed between the switch and the receptacle in a dual-box Wiremold system.

Homework:

Finish your wiring diagram and confirm correct connections for S1 switches and the GFCI receptacle.

I will know I've got it when:

My schematic and wiring diagrams are complete and accurate.

My materials list includes everything needed for installation.

My rough installation passes the instructor check.