

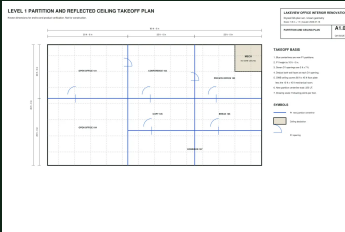
Practice takeoff. Teach the reasoning.

Five synthetic plan sets - 10 sheets - 42 controlled answer checks

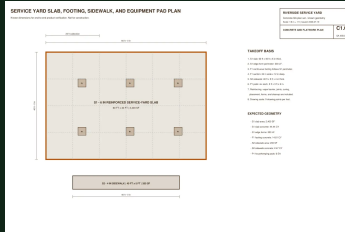
Drywall, concrete, finishes, landscaping, and mixed-trade remodeling

OPEN THE FREE PRACTICE LIBRARY

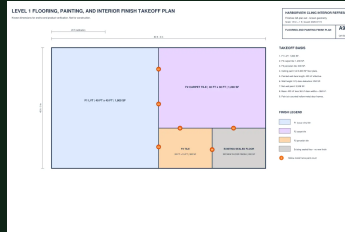
No email gate. Score locally. Download an aggregate-only card.



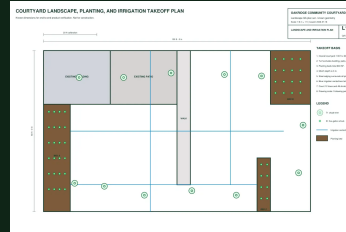
DRYWALL AND METAL FRAMING
Lakeview office renovation
9 checks - A1.01 / A5.01



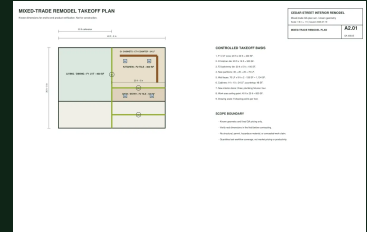
CONCRETE AND FLATWORK
Riverside service yard
7 checks - C1.01 / C5.01



PAINTING AND FLOORING
Harborview clinic refresh
7 checks - A9.01 / A9.02



LANDSCAPING AND IRRIGATION
Oakridge community courtyard
9 checks - L1.01 / L5.01



MIXED-TRADE REMODEL
Cedar Street interior remodel
10 checks - A2.01 / A6.01

Synthetic practice material only. Not for construction. Not a credential or certification.

Run a repeatable measure-score-debrief loop.

01

Calibrate

Open page one only. Verify a labeled dimension before any production measurement.

02

Declare scope

Write the quantity ID, unit, gross path, deductions, and conversion before tracing.

03

Measure

Keep counts, lengths, areas, perimeters, and volumes separate. Record the arithmetic.

04

Score locally

Enter only final quantities in the browser scorecard. No learner values are transmitted or stored.

05

Debrief

Open page two. Compare both the result and the reasoning path, then clear the scorecard.

FACILITATOR BOUNDARIES

- Use the supplied dimensions and stated scope only.
- Do not present score bands as job readiness or certification.
- Do not replace project specifications, code, field checks, or professional review.
- Fixed answer-sheet pricing is regression data, not a market benchmark.
- Keep learner names, emails, project files, and entered values outside this resource.

SUGGESTED SEQUENCE

Session 1: calibration + drywall

Session 2: slab, footing, and volume

Session 3: finish-area deductions

Session 4: net landscape scope

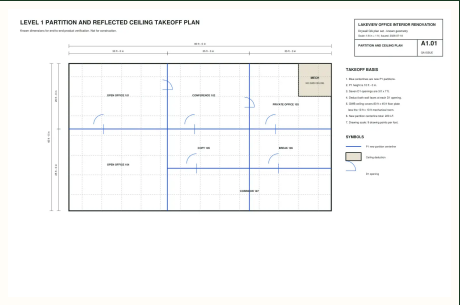
Session 5: mixed-trade reconciliation

Capstone: explain all 42 answer paths

Lakeview office renovation

Plan A1.01 - Answer sheet A5.01 - 9 controlled checks

Hide the answer sheet until scoring. Require the formula and unit, not only the final number.



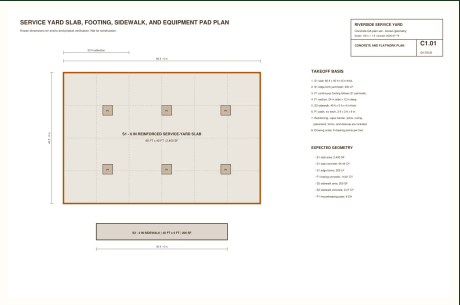
ID	Scope checkpoint	Controlled reasoning path	Expected
DW-01	P1 new partition centerline	$45 + 45 + 80 + 50$	220 LF
DW-02	P1 wall faces gross	$220 \text{ LF} \times 10 \text{ ft} \times 2 \text{ faces}$	4,400 SF
DW-03	D1 opening deduction	$7 \times 3 \text{ ft} \times 7 \text{ ft} \times 2 \text{ faces}$	294 SF
DW-04	P1 wall faces net	$4,400 - 294$	4,106 SF
DW-05	Floor and deflection track	$220 \text{ LF} \times 2$	440 LF
DW-06	GWB ceiling gross	$80 \text{ ft} \times 45 \text{ ft}$	3,600 SF
DW-07	Mechanical-room ceiling deduction	$10 \text{ ft} \times 10 \text{ ft}$	100 SF
DW-08	GWB ceiling net	$3,600 - 100$	3,500 SF
DW-09	D1 opening finish returns	Counted symbols	7 EA

Debrief: Which misses came from calibration, geometry, scope interpretation, deductions, units, or conversion?

Riverside service yard

Plan C1.01 - Answer sheet C5.01 - 7 controlled checks

Hide the answer sheet until scoring. Require the formula and unit, not only the final number.



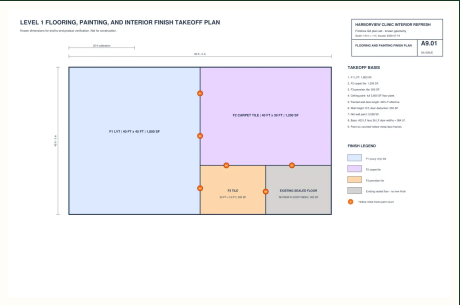
ID	Scope checkpoint	Controlled reasoning path	Expected
CN-01	S1 service-yard slab area	60 ft x 40 ft	2,400 SF
CN-02	S1 slab concrete at 6 in	2,400 SF x 0.5 ft / 27	44.44 CY
CN-03	S1 edge-form perimeter	2 x (60 + 40)	200 LF
CN-04	F1 perimeter footing concrete	200 LF x 2.0 SF / 27	14.81 CY
CN-05	S2 sidewalk area	40 ft x 5 ft	200 SF
CN-06	S2 sidewalk concrete at 4 in	200 SF x 0.3333 ft / 27	2.47 CY
CN-07	P1 housekeeping pads	Counted P1 symbols	6 EA

Debrief: Which misses came from calibration, geometry, scope interpretation, deductions, units, or conversion?

Harborview clinic refresh

Plan A9.01 - Answer sheet A9.02 - 7 controlled checks

Hide the answer sheet until scoring. Require the formula and unit, not only the final number.

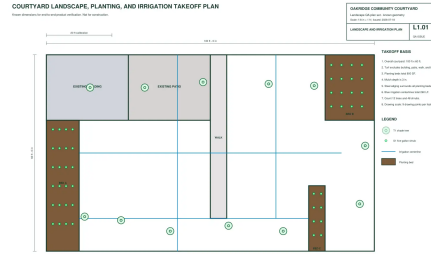


ID	Scope checkpoint	Controlled reasoning path	Expected
FN-01	F1 LVT floor	40 ft x 45 ft	1,800 SF
FN-02	F2 carpet tile floor	40 ft x 30 ft	1,200 SF
FN-03	F3 porcelain tile floor	20 ft x 15 ft	300 SF
FN-04	Net painted wall faces	420 LF x 9 ft - 252 SF openings	3,528 SF
FN-05	Painted ceilings	80 ft x 45 ft	3,600 SF
FN-06	Resilient/rubber base	420 LF - 36 LF door widths	384 LF
FN-07	Painted hollow-metal frames	Counted D1-D6 markers	6 EA

Debrief: Which misses came from calibration, geometry, scope interpretation, deductions, units, or conversion?

Oakridge community courtyard

Hide the answer sheet until scoring. Require the formula and unit, not only the final number.



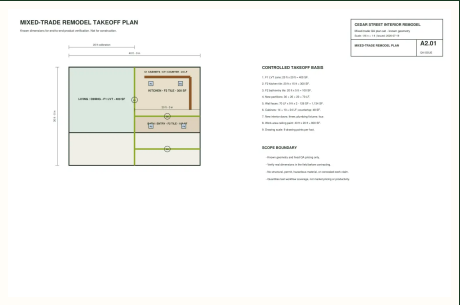
ID	Scope checkpoint	Controlled reasoning path	Expected
LS-01	Courtyard gross area	100 ft x 60 ft	6,000 SF
LS-02	Non-turf deductions	500 building + 500 patio + 250 walk + 800 beds	2,050 SF
LS-03	Net sod area	6,000 - 2,050	3,950 SF
LS-04	Planting bed area	400 + 300 + 100	800 SF
LS-05	Mulch volume at 3 in	800 SF x 0.25 ft / 27	7.41 CY
LS-06	Steel bed edging	100 + 70 + 50 perimeter	220 LF
LS-07	Irrigation mainline and branches	80 + 60 + 70 + 50	260 LF
LS-08	Shade trees	Counted T1 symbols	12 EA
LS-09	Five-gallon shrubs	Counted S1 symbols	48 EA

Debrief: Which misses came from calibration, geometry, scope interpretation, deductions, units, or conversion?

Cedar Street interior remodel

Plan A2.01 - Answer sheet A6.01 - 10 controlled checks

Hide the answer sheet until scoring. Require the formula and unit, not only the final number.



ID	Scope checkpoint	Controlled reasoning path	Expected
RM-01	F1 living and dining LVT	20 ft x 20 ft	400 SF
RM-02	F2 kitchen tile	20 ft x 15 ft	300 SF
RM-03	F2 bath and entry tile	20 ft x 5 ft	100 SF
RM-04	New non-structural partitions	30 + 20 + 20	70 LF
RM-05	Net gypsum wall faces	70 x 9 x 2 - 126	1,134 SF
RM-06	Base and wall cabinets	14 + 10	24 LF
RM-07	Two-foot-deep countertop	24 LF x 2 ft	48 SF
RM-08	Interior doors	Count D1-D3	3 EA
RM-09	Plumbing fixtures	Count P1-P4	4 EA
RM-10	Work-area ceiling paint	40 ft x 20 ft	800 SF

Debrief: Which misses came from calibration, geometry, scope interpretation, deductions, units, or conversion?

Score the work. Diagnose the pathway.

A percentage is a starting point for review. It is not a credential, hiring signal, or field-accuracy claim.

90-100%

Increase complexity

Require a second method, new deductions, and a written scope narrative.

75-89%

Repeat missed scope types

Group misses by calibration, geometry, deductions, units, and conversions.

Below 75%

Return to the pathway

Recalibrate, rebuild one quantity at a time, and explain every unit change.

FIVE DEBRIEF QUESTIONS

1. What known dimension established scale?
2. Which gross quantity came before deductions?
3. Where did the unit change, and why?
4. Which scope assumption affected the answer most?
5. What independent check would catch the miss?

CONTINUE THE LOOP

Score all five trades locally.

No account. No learner uploads.

No entered quantity storage.

OPEN PRACTICE SCORECARD