Mobile Welding Business Worked Case

Work, Money & Place | Local review edition v2 | November 21, 2026

All people business names permissions measurements approvals evidence dates transactions and outcomes are fictional teaching examples. No actual technical qualification permit market demand paid job or physical test is asserted.

Cedar Bench Metalworks and two photo display stands

The inquiry and supported decision

On November 21, 2026, Morgan Lane of fictional Paperlight Portraits asks Alex Rowan of Cedar Bench Metalworks for two indoor paper photo displays. Alex uses hello@cedarbench.example.invalid, a fictional contact. Overall views and intended use support a detached noncritical desktop product. Alex refuses a lifting handle and any wall or guardrail attachment. Stock is documented new uncoated low carbon steel. The case assumes existing practical competence and commercial prerequisites; these assumptions do not transfer to a learner.

The fictional job uses a permitted Bellevue work bay controlled by Casey Ellis. HW 026 assumes current coverage for the exact activity and manager authorization after a 12:15 pre-work inspection. SITE 026 costs $90 and supplies the bay plus named trained separate watcher Sam Rivera during hot work and through the required post-work watch and closeout check. Sam’s extinguisher and alarm training, the operator’s required extinguisher training and complete exposed-area coverage are confirmed in the invented record. Additional personnel are required if one watcher cannot observe every exposure. TOLL 026 is $10. No real permit, training check, agency approval or payment occurred.

Drawing stock and exact process

Drawing A calls for two 6 by 4 inch bases and two 6 by 5 inch uprights, all 1/8 inch documented uncoated low carbon steel. Each upright meets its base at 90 degrees, with its rear face set 1/2 inch forward from the base rear edge so both seams remain accessible. Four 6 inch product seams total 24 inches; two 4 inch coupon seams add 8 inches. The process is ordinary short circuit GMAW using a model matched Millermatic 211 PRO, .030 inch ER70S 6, C25, DCEP and the smooth V groove. Auto Set selects steel C25, .030 wire and actual 1/8 inch thickness; actual displayed controls belong in the rehearsal record. No universal volts or feed speed are invented. The fetched manual is OM 298867B, April 2026, despite its A filename. The selected spool is Hobart HB 28 .030 inch ER70S 6, two pound part S305406 019; its price remains a fictional teaching assumption.

Two 12 by 12 inch plates cost $108. Product area 108 square inches and four coupon blanks totaling 32 equal 140 useful square inches. After allowing actual kerf and trim, measured reusable offcuts total 136 square inches and loss totals 12, reconciling all 288 purchased. Coupon and product observations are invented and do not validate a welding procedure.

Before any spark, fictional reviewer Jordan Vale checks Alex’s existing competence and PPE 026 against the selected process and actual operating range: suitable welding helmet and identified filter/cover lenses, underlying impact eye protection, dry welding gauntlets, flame-resistant skin coverage arranged against trapped sparks and suitable closed footwear. Sam’s task-appropriate protection is checked too. Damaged or missing protection, an untrained or absent watcher, incomplete coverage or unconfirmed permission prevents start. These invented checks do not train or qualify a learner.

Independent estimate and dated customer confirmation

Alex builds nonfee cost before selecting a price: 390 planned minutes at $32 per hour = $208; direct cash $100; stock consumption $65; vehicle $12; equipment $18; overhead $22. Total $425. With invented fees of 3 percent of gross plus $0.30 on each of two payments and illustrative 10 percent customer tax, a $150 target result gives a candidate price of $595.25. Alex selects $620 pretax as the fictional offer; no actual willingness to pay has been established.

Complete fictional quote WM 026: Cedar Bench Metalworks, Alex Rowan, hello@cedarbench.example.invalid, to Morgan Lane of Paperlight Portraits. Dated November 21, 2026, valid through November 28. Two detached indoor paper photo L stands to drawing A, each with a 6 by 4 inch base and 6 by 5 inch upright in 1/8 inch documented uncoated low carbon steel. Includes preparation, supported welding, deburring, eight pads, inspection and delivery from the authorized bay. Finish is bare steel with visible seams. Excludes installation, load rating, paint, outdoor performance, glass and all permanently excluded critical categories. Price $620, illustrative tax $62, total $682. Deposit $220 gross is credited; balance $462 due at accepted handoff.

One supported fabrication and delivery day is scheduled after every gate. Extra work requires a costed written revision before it begins. Before cutting, return unused deposit less only previously authorized, lawful and documented unrecoverable charges. After cutting, provide itemized status and supported options. The 14 day concern follow up does not limit applicable legal rights. Fictional Morgan approval dated November 21 accepts drawing A and these terms, conditional on actual technical and site gates. Baseline values are saved: $620 price, 390 minutes, $446.06 cost and $173.94 planned result before reserve. A possible $90 powder coat option is declined; a lifting handle remains excluded.

Performance holds and accepted observations

Alex records 420 owner minutes across the full timeline, including both travel legs, permission confirmation, purchasing, setup, cooling, after watch, cleanup, records and performed follow up. A coupon porosity observation triggers a shielding and draft review followed by repeat checks. Overall actual time exceeds plan by 30 minutes; no extra charge is assumed. Fictional competent review releases only the selected noncritical product after its checks.

Fictional stand 1 measures 90.5 degrees with 1/64 inch rock; stand 2 measures 89.5 degrees with 1/64 inch rock. Both meet the chosen 90-degree target within 2 degrees and rock no greater than 1/32 inch. Accessible seams show none of the listed visible defects and edges are deburred; this establishes no hidden fusion or load rating. Sam Rivera is on watch from first spark 12:20 through final spark-producing work at 14:15 and remains the trained watcher through 14:45. Alex’s separate 30 owner minutes are attendance and records, not a substitute watch. At 14:45 Casey Ellis checks the planned exposed areas and releases fictional HW 026 only after confirming the required watch, inspection and any further monitoring are complete. Any changed exposure, later spark, missing training, short coverage or unconfirmed permit condition would keep the job on hold.

Payments inventory and complete result

PAY 01 is a $220 gross deposit; PAY 02 is a $462 gross final payment, totaling $682. Invented fees are $6.90 and $14.16, totaling $21.06; net bank receipts are $660.94. Completion earns $620 pretax and leaves $62 customer tax payable until remitted. Before performance, the deposit was a delivery or refund obligation. Opening bank $1,000 minus $221 stock purchases minus $100 direct cash plus $660.94 net receipts equals $1,339.94. Equipment purchases, owner draw and tax remittance are confirmed zero in this case.

Consumed and lost stock costs: steel $57, wire $3.08, gas $3.60, disc $2.50 and pads $2.40, totaling $68.58. Remaining stock $152.42 reconciles the $221 purchase. Owner 420 minutes at $32 per hour is $224. Management cost is $224 + $68.58 + $100 + $21.06 + $12 vehicle + $18 equipment + $22 overhead = $465.64. Result $620 - $465.64 = $154.36 before reserve and other taxes. Designating $25 reserve leaves $129.36 as a management remainder. Actual result is $19.58 below the baseline, explained by $16 extra owner value and $3.58 extra stock use. This is not take home pay or an earnings forecast.

Delivery follow up and separate adverse outcomes

Morgan fictionally accepts the agreed indoor paper photo result and receives the drawing limits and concern route. Alex records 10 minutes for performed fictional follow up, with no concern reported. No real message, payment, customer review, publication or physical test occurred. The case illustrates records and decisions; it is not evidence of practical readiness.

Keep three adverse examples separate. Assessment discovers an excluded guardrail: no welding; lawful prior assessment fee $75 pretax plus illustrative $7.50 tax; 90 owner minutes $48, cash $10, vehicle $6, overhead $5 and fee $2.78 leave $3.22 before other taxes and reserve. Cancellation before performance leaves the unearned $220 deposit owed until a confirmed refund posting; retained original fees remain a cost. A later correction adds $32 owner value, $8 cash, $4 vehicle and $2 stock, a $46 cost that reduces the successful case result to $108.36 without new revenue. None of these alternatives overwrites the successful base case.

Full owner cycle

Stage	Minutes	Evidence
Inquiry and screening	15	INT026 scope record
Drawing and independent estimate	35	Drawing A and EST026
Permission and site confirmation	15	Fictional HW026 record
Purchasing stock check and loading	35	ST026 and load record
Outbound travel	25	Owner time log
Site recheck and setup	45	SET026 and site record
Cutting and preparation	45	CUT026 pieces and stock
Coupons fitting and fabrication	65	PR026 process and recheck
Cooling product checks and deburring	40	QC026 actual readings
After watch after last spark	30	WATCH 026: Sam Rivera trained watch; Alex attendance; Casey Ellis permit-governed inspection and release
Packing cleanup and reset	20	Site manager closeout
Return travel	25	Owner time log

Stage	Minutes	Evidence
Invoice settlement and records	15	INV026 PAY01 PAY02 bank
Actual follow up	10	FU026 fictional report

Total owner minutes: 420. Contingency capacity is separate unless actually used.

Complete financial reconciliation

Measure	USD
Service price	$620.00
Gross invoice	$682.00
Assumed payment fees	$21.06
Owner time value	$224.00
Job cash excluding purchases	$100.00
Consumed and lost stock	$68.58
Nonfuel vehicle use	$12.00
Equipment allocation	$18.00
Overhead allocation	$22.00
Total management cost	$465.64
Result before reserve	$154.36
Separate business reserve	$25.00
Remainder after reserve	$129.36

Amounts are fictional teaching assumptions. Stock and total management cost show up to six decimals to expose allocation precision. Final results use full-precision costs and round half up to cents. Reserve is a cash designation, not an expense. Owner value and allocations are not bank payments. Other taxes and actual business-level overhead remain separate.

Stock scans all eight own-business slots, including opening units and rows after a gap. Confirm the number of filled rows in Stock C23. A mismatch or partial row withholds totals J34 and K34; zero is valid only when no rows are filled. Complete every required zero in a used row.

Your order C19 is only the actual fee withheld from service receipts. It cannot exceed those receipts. Record a genuine additional processor bank debit paid in C47 with its reason, date and statement

reference in C48; confirm 0 when none. It is included once in management cost and linked Cash C49. Unknown or unreconciled fee data blocks a successful result.

Changes and stop decisions

Potential powder coat finish quoted at 90 dollars

Supported research not completed and customer declines the option.

No earned revenue and no actual cost in the base; this is only a possible quote.

Carrying handle intended for lifting

Permanently excluded; changing a request status cannot authorize it.

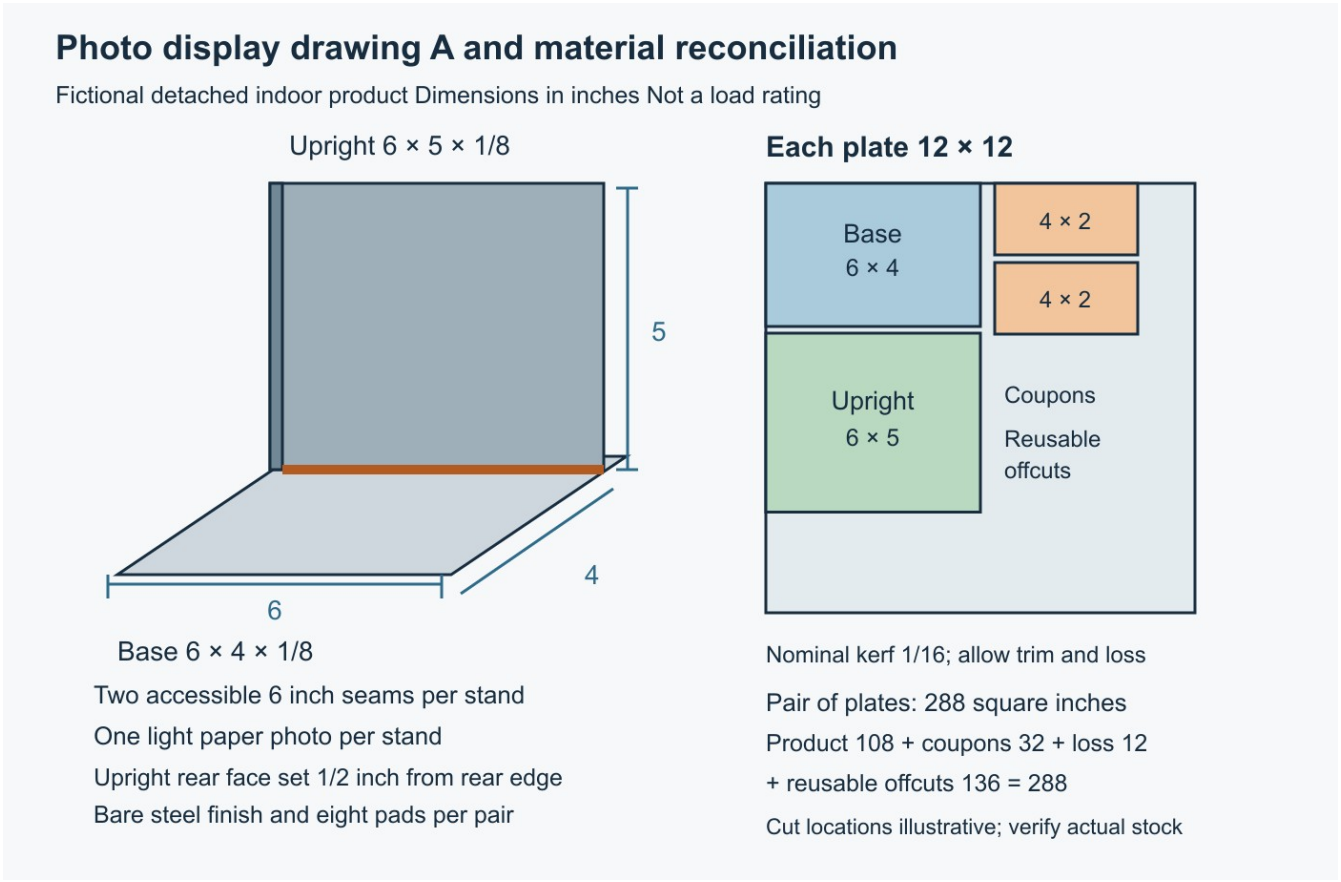
No revenue and no approved work.

Coupon issue and repeat checks

Hold, inspect and repeat within the supported scope.

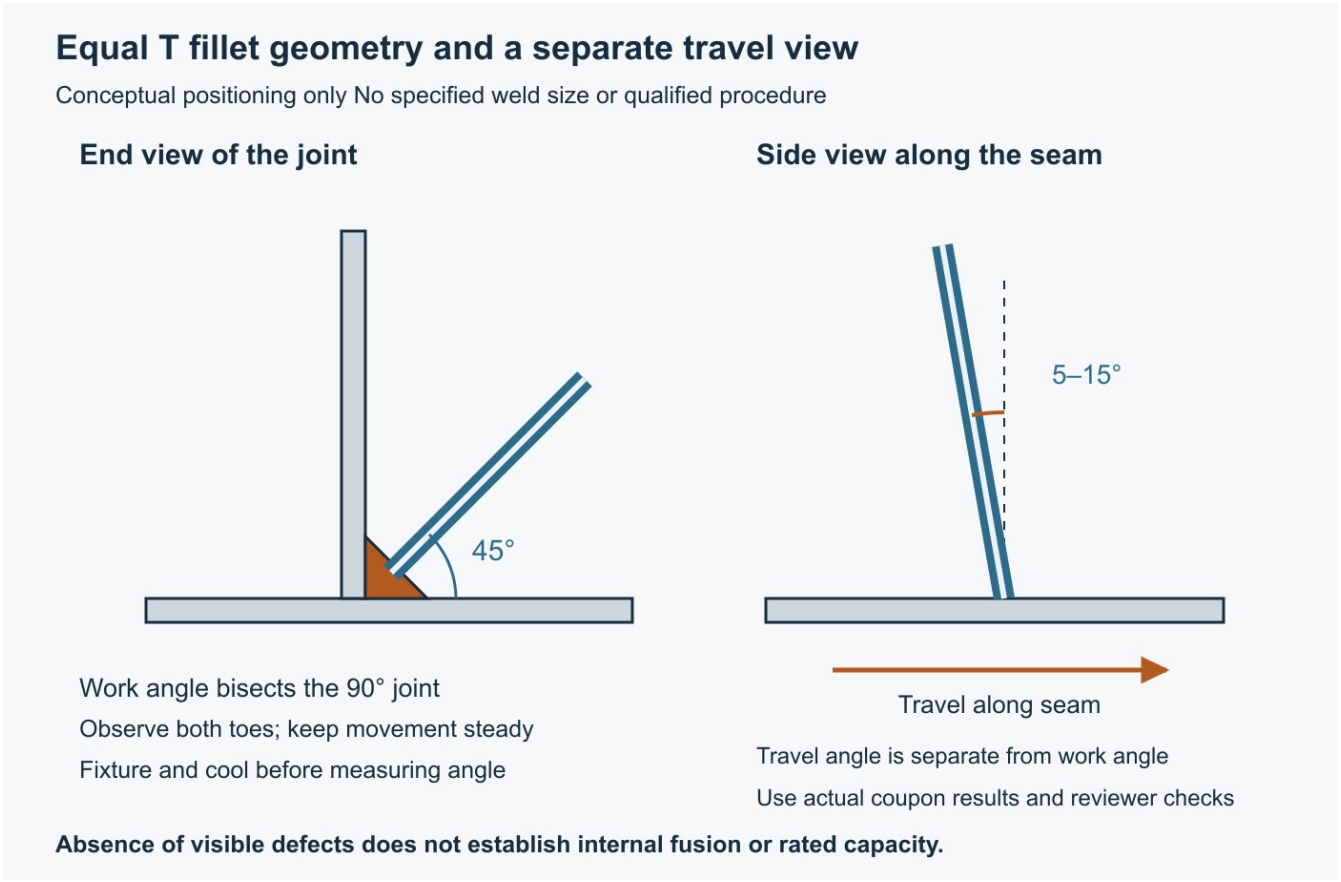
Actual owner time is 30 minutes higher and stock expense $3.58 higher than plan, with no additional charge.

Product geometry and stock accounting



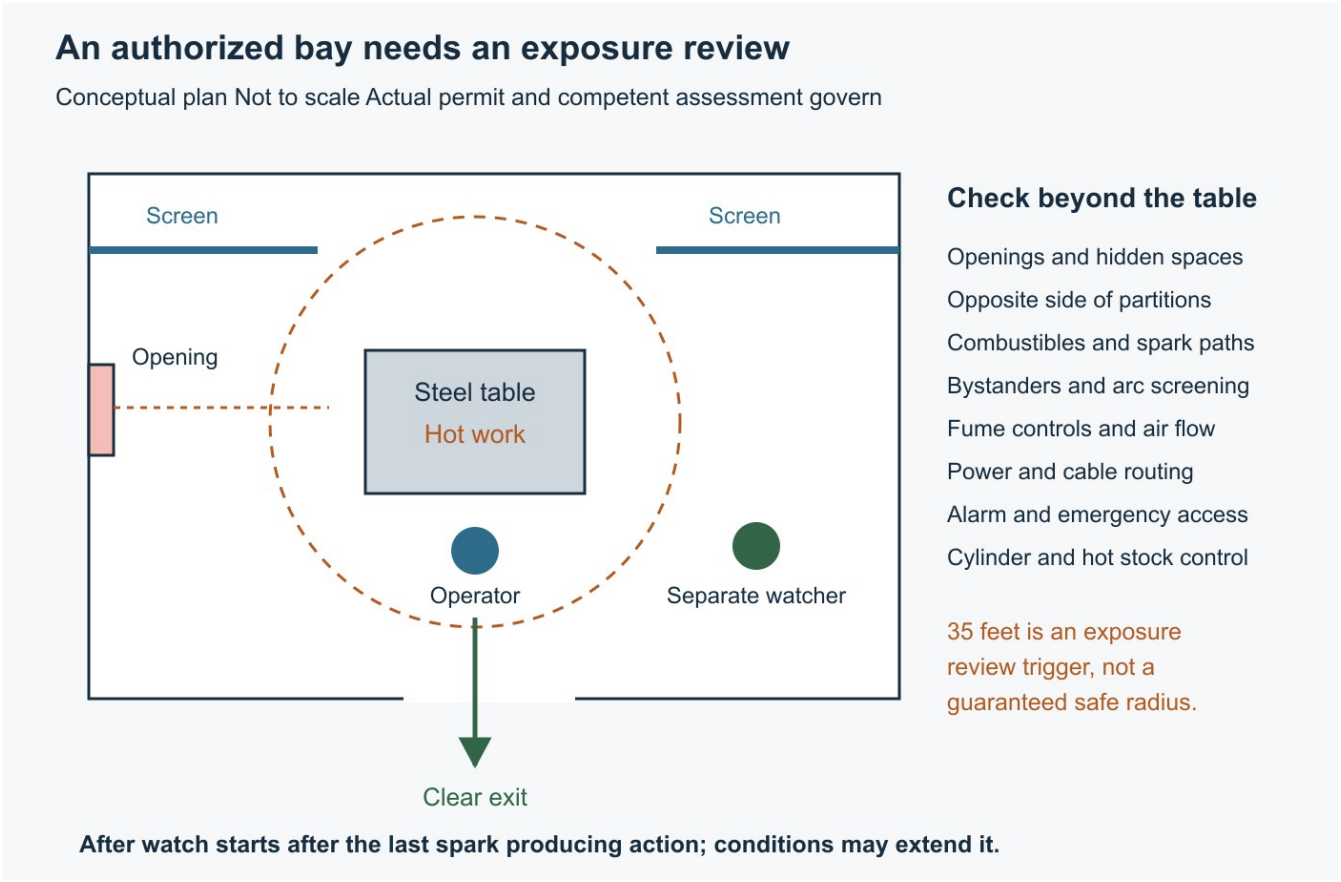
Original fictional drawing A. A 6 by 4 inch base and 6 by 5 inch upright meet at 90 degrees. For two stands: product area 108 square inches plus coupons 32, loss 12 and remaining stock 136 reconcile all 288 purchased. Product tolerances are a fictional agreement, not a load rating.

Equal T fillet gun geometry and observation



Original schematic using manufacturer general guidance W02 and W03. The 45 degree work angle and 5 to 15 degree travel angle are separate views. Geometry is conceptual; no weld size, code acceptance or qualification is established.

Hot work exposure review



Original conceptual plan for W05 and W06. Review actual exposures including openings and opposite sides. The 35 foot distance is a review trigger, not a guaranteed safe radius. Actual authorization, ventilation and permit conditions control.