# Mobile Bicycle Repair Business Course Program

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A bounded service, evidence and a complete owner cycle.

### Start with a front inner tube

Plan a conventional bicycle's FRONT inner-tube service. No tune-ups or e-bikes.

Start with demand questions and paper costing. The selected rim limit is unknown, so repair, inflation and release stay on HOLD.

Begin learning with L01. Check conditions and demand in L02 before buying or accepting paid work.

## Five steps to a readiness decision

1. Narrow the front-flat offer — L01, L03 / F01, F03. Supported actual system/task, exclusions and unresolved identity facts.

2. Check conditions and demand first — L02, L09, L12 / F02, F06, F09. Permission-based research plan, local/worksite/coverage holds and purchase decision.

3. Rehearse the complete permitted task — L04, L05, L06, L07, L08 / F04, F05, F10. Pressure-evidence HOLD decision and inactive explanation now; qualified observed complete sequence only on an eligible documented assembly.

4. Cost independently, then quote — L10, L11 / F07, F08. Dated contingent complete-cycle paper estimate, stock math and full proposed total/terms; separate held-case $0 status.

5. Decide readiness and next action — L13, L14 / F10, F11. Evidence-based hold/rehearse/revise or limited-pilot decision.

Stop at missing conditions or evidence. The route is a study order, not permission to sell or perform unverified work.

A proposed FRONT inner-tube service on an assessed conventional Trek FX 1 Gen 3, model 1042795, with its documented FX steel QR fork, Formula FM21 front hub/QR22 skewer, Bontrager Connection Schrader rim, Bontrager H2 Comp 35-622 tube-type tire and Tektro linear-pull rim brake. Teach the conditional full method: front wheel removal/refit, puncture assessment, compatible standard butyl tube fitting, brake restoration and checks under qualified bicycle-mechanic observation. The selected actual rim's numerical pressure limit has not been verified; Case B stays on HOLD before repair, inflation and release. No tune-up, e-bike work or safety certification is offered.

An aspiring owner operator who will develop and demonstrate the mechanical skills before taking paid repair work.

560 minutes (9 hours 20 minutes) of reading, exercises and form work from the lesson allowances. Add separate time for actual local research and permitted supervised physical practice; no fixed practice duration establishes readiness.

# Start here

Begin with the five-stage short route below. Investigate the narrow FRONT inner-tube offer through L02 and F02 before buying dedicated equipment or stock. Read the complete front-wheel method in L05–L08, including removal/refit and brake restoration; do not turn it into a customer-removes-the-wheel offer. Physical work requires the actual assembly, current instructions, qualified observation and all necessary gates.

Case B is a fictional unresolved intake, not a completed repair. The selected Connection rim's numerical pressure permission remains unknown. Do not fill that gap with an assumed marking, an invented manufacturer answer or the tire's range alone. Inflation, riding and a ready-to-ride result stay on HOLD. No physical bicycle, marking, customer job, paid demand, practice or credential was established for this course.

A separate conditional paper full-job financial simulation retains the $160 price, 190 planned owner minutes, $132.79 economic cost and $17.21 remainder after reserve. Those are arithmetic inputs only. They do not describe work, payment or follow-up performed for held Case B. Start now with voluntary demand research, documentation, dry explanation and the independent estimate; arrange an eligible assembly and qualified mechanic before physical rehearsal.

First action: Write the narrow conventional FRONT inner-tube offer and record the missing actual rim-pressure evidence in F03. Begin voluntary demand research and the paper estimate; do not buy dedicated stock or book a repair while necessary evidence or competence is unresolved.

# Course route

## Define and investigate the first offer

L01 Choose a repair promise you can demonstrate. Output: A one-task offer, competence boundary and hold rule Study and exercise allowance: 30 minutes.

L02 Test demand and operating conditions before buying. Output: A dated demand test and a stop-before-purchase decision Study and exercise allowance: 40 minutes.

L03 Identify the installed tire, tube, rim and brake. Output: A compatibility record with evidence and unresolved items Study and exercise allowance: 35 minutes.

## Rehearse the complete supported repair

L04 Prepare a permitted rehearsal and stable workstation. Output: A complete rehearsal setup and observer record Study and exercise allowance: 45 minutes.

L05 Assess the bicycle and remove the front wheel. Output: A before-state record and controlled wheel removal Study and exercise allowance: 40 minutes.

L06 Locate the puncture and decide whether the tire stays. Output: A cause map and a repair, part-change or referral decision Study and exercise allowance: 50 minutes.

L07 Fit a compatible tube only after the pressure gate. Output: A pressure-evidence decision and conditional fitting/check method Study and exercise allowance: 40 minutes.

L08 Refit the wheel, restore the brake and verify. Output: A documented wheel-retention and brake-restoration result Study and exercise allowance: 45 minutes.

### Organize and price the whole visit

L09 Plan the site, route and local operating conditions. Output: A viable visit route and a location-specific launch hold list Study and exercise allowance: 35 minutes.

L10 Build the independent estimate and stock plan. Output: A dated whole-visit cost estimate before selecting a price Study and exercise allowance: 45 minutes.

L11 Give a complete estimate and obtain specific approval. Output: A customer-readable estimate/confirmation with an approval status Study and exercise allowance: 35 minutes.

### Find suitable customers and decide readiness

L12 Build a useful profile and a two-week outreach test. Output: An unsent service profile, messages and a matching funnel Study and exercise allowance: 45 minutes.

L13 Record a hold and keep the financial simulation separate. Output: An unresolved-case record plus a separate conditional cash/stock reconciliation Study and exercise allowance: 40 minutes.

L14 Decide whether to rehearse, revise or launch a limited pilot. Output: An evidence-based readiness decision and next action Study and exercise allowance: 35 minutes.

## Starter boundaries

- Electric-assist bicycles, conversion kits, motors, wiring and batteries.
- Rear-wheel service, hub brakes, internal gear hubs, through axles, bolt-on axles, tubeless, tubular and hookless systems in the starter offer.
- Brake adjustment, cable or pad replacement, wheel truing, bearing adjustment, suspension, structural damage, carbon repair and crash clearance.
- A universal bicycle safety certificate, race preparation, emergency roadside rescue or guaranteed completion despite unsuitable conditions.

## Files and readiness

The package contains 14 lessons, 11 working forms with separate examples, a complete fictional case, original teaching visuals and a formula planner with an independent Estimate and task-specific working sheets. Counts follow the tasks.

- The learner identifies actual installed fork, QR, brake release, rim, tire and compatible tube with current instructions; unknowns are recorded rather than inferred from model alone.
- A competent observer has seen the whole permitted removal/repair/refit/brake-restoration sequence and stop decisions; no course-only credential or fixed-hour permission.
- Genuine matching manufacturer instructions or an authentic installed-rim marking establish its numerical pressure/type restrictions, actual tire instructions agree and the interval is nonempty. Current Case B fails this gate; no selected pressure or inflation is permitted.
- The learner can recognize incomplete QR closure, poor axle seating, an unseated noodle, damaged casing/bead and inadequate rim protection before any use.
- The site is permitted, firm, level, adequately lit and separated from traffic/public passage; conditions actually allow inspection and safe handling.
- Business/work-location requirements, storage/practice zoning questions, relevant coverage and test-ride conditions have actual documented decisions.

- Demand research concerns supported customer problems and the specific total; interest is not represented as real bookings or local proof.
- Independent estimate includes all owner stages, every travel leg, stock use/loss, actual job cash, appropriate allocations and gross-receipt fees; baseline remains dated/static.
- The customer receives a complete scope, total, change/cancellation/correction terms and any required statutory notices, then gives actual approval before work.
- Handoff records the limited result, checks, unresolved issues and next action; no universal safety certificate or future puncture guarantee is implied.