

Firewood Collection & Transport

Sample Evaluation Protocol

FICTIONAL DEMONSTRATION DATA

Sample status V10 · 10 October 2026

Purpose of this sample

This fictional sample illustrates how agreed robot training and subsequent field testing can be documented in a traceable way. It is neither a test certificate nor evidence of tests actually performed.

1. Test task and framework

Test task	Collect firewood logs from a marked pick-up area, transport them along a defined route and place them in a target box.
Test environment	Fictional private site · firm gravel path · slight incline · dry conditions · no public traffic area.
Transport route	18 m each way · marked turning area · target box 0.8 m × 0.8 m.
Safety framework	Observation by trained persons; emergency stop and manual interruption documented only as fictional test preconditions.

2. Robot system and training method

Robot model	R-Field One · fictional example model
Hardware state	Gripper module A2 · load sensors · front camera · no product approval implied.
Software state	FW 0.8.4-demo · navigation profile wood-transfer-02.
Training method	Step-by-step demonstration of gripping, carrying and placement; repetition with clear target markers.
Human support	Verbal cues and one manual position correction during training; no remote control in the fictional evaluated test runs.

3. Fictional measurements and observations

Metric	Before training	After training	Interpretation
Success rate	4 of 12 (33%)	10 of 12 (83%)	Target box reached completely and placement finished.
Time per successful run	4:42 min	2:31 min	From the start until the load is placed; fictional average.
Human interventions	7 of 12	1 of 12	Only interventions to secure the test sequence.
Test load	2.0 kg firewood	2.0 kg firewood	Same fictional load before and after training.

Documented difficulties

Imprecise gripping of irregular logs; brief navigation stops at the turning point; one collision with a marker without personal injury. All details are fictional.

4. Assessment and next development steps

The sample figures indicate improvement after training. For a real manufacturer project, the test plan, risk review, data protection, responsibilities, stopping criteria and evaluation would all be agreed contractually in advance.

- Extend the gripping strategy to different log shapes.
- Test inclines, changing ground conditions and different visibility conditions separately.
- Capture, store and evaluate sensor and video data only within the agreed scope.
- Document endurance testing, software updates and repeatability in a separate follow-up protocol.