



TickFlow Capital

Walk-Forward Validation Worksheet

Tickflow Capital Limited

Systematic Strategy Testing Tracker

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Cover & Instructions

This worksheet guides you through a systematic walk-forward validation process. Walk-forward testing is essential for confirming that your trading strategy has a real edge and is not a victim of overfitting.

Key Principle: Never optimize on out-of-sample (OOS) data. Always freeze parameters after in-sample (IS) optimization and test on fresh data.

7-Step Implementation Tracker

Use this table to track completion of each phase:

Step	Task	Completed?	Notes / Parameters
1	Choose data window (minimum 3–5 years of daily OHLCV)	<input type="checkbox"/>	Symbol: _____ From: _____ To: _____
2	Define window sizes (e.g., 24mo IS / 12mo OOS)	<input type="checkbox"/>	IS Period: ____ months OOS Period: ____ months
3	Optimize parameters on in-sample period	<input type="checkbox"/>	Optimization Method: _____
4	Freeze parameters – NO adjustments allowed	<input type="checkbox"/>	Frozen Parameters Documented: <input type="checkbox"/> Yes <input type="checkbox"/> No
5	Test on out-of-sample period with frozen params	<input type="checkbox"/>	OOS Period Start: _____ End: _____
6	Record metrics (PF, Sharpe, trade count)	<input type="checkbox"/>	See Parameter Drift Log table below
7	Roll forward 1 month, repeat steps 3–6 for all windows	<input type="checkbox"/>	Total Windows Completed: ____ / ____

Parameter Drift Log

Track how your optimal parameters change across successive walk-forward windows. Large parameter drift signals overfitting.

Window	OOS Period	MA Period	RSI Threshold	Volume Filter	Profit Factor	Total Trades	Pass/Fail
1	_____	_____	_____	_____	_____	_____	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
2	_____	_____	_____	_____	_____	_____	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
3	_____	_____	_____	_____	_____	_____	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
4	_____	_____	_____	_____	_____	_____	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5	_____	_____	_____	_____	_____	_____	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
6	_____	_____	_____	_____	_____	_____	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

Notes on Parameter Drift:

- ✔ **Healthy:** Parameters stable across windows ($\pm 5\%$ variation)
- ⚠ **Concerning:** Parameters drift significantly ($>10\%$ variation)

- **✗ Red Flag:** Parameters change drastically (>20% variation) – likely overfitting

Pass/Fail Criteria

Your strategy must meet ALL of these thresholds on EACH out-of-sample window:

Metric	Pass Threshold	Your Result
Profit Factor (PF)	≥ 1.0	_____
Minimum Trades per OOS Window	≥ 20	_____
Sharpe Ratio (annualized)	≥ 0.5	_____
Win Rate (if available)	$\geq 40\%$	_____

Overall Strategy Validation Result

Count how many of your 6 windows passed ALL criteria:

Windows Passed: ____ / 6

Pass Rate: ____ %

Pass Rate	Rating	Recommendation
$\geq 75\%$	✓ Robust	Ready for live trading (after additional due diligence)
50–75%	⚠ Needs Review	Investigate failures; consider parameter tuning; test longer periods
$< 50\%$	✗ Insufficient Edge	Do NOT trade live; return to research phase

Your Assessment: _____

Statistical Tests

Test 1: T-Test (Win Rate Significance)

Determines if your observed win rate is statistically significant (not just luck).

Null Hypothesis: Win rate = 50% (random flips)

Formula:

- Observed win rate: $\text{Wins} / \text{Total Trades}$
- Standard error: $\sqrt{(0.5 \times 0.5 / \text{Total Trades})}$
- t-statistic: $(\text{Observed Win Rate} - 0.5) / \text{Standard Error}$
- p-value: Look up in t-distribution table or use Excel `=T.DIST.2T(t-stat, df)`

Interpretation:

- $p < 0.05$ → Statistically significant (reject null hypothesis, you have an edge)
- $p \geq 0.05$ → Not statistically significant (edge may be due to luck)

Your Results:

- Total Trades: _____
- Winning Trades: _____
- Win Rate: _____ %
- t-statistic: _____
- p-value: _____
- **Conclusion:** Significant Not Significant

Test 2: Monte Carlo Simulation

Shuffles the order of your trades to see if the profit sequence is due to lucky sequencing.

Method: Generate 10,000 random permutations of your trade returns. If your actual cumulative return is in the top 5% (95th percentile), your edge is NOT due to lucky sequencing.

Interpretation:

- Actual Rank > 95th percentile → Edge is robust to sequencing
- Actual Rank 50–95th percentile → Mild luck factor
- Actual Rank < 50th percentile → Likely luck-based

Your Results:

- Actual Cumulative Return: _____
 - 95th Percentile Threshold: _____
 - Percentile Rank: _____ th
 - **Conclusion:** Robust Moderate Luck Luck-Based
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Test 3: Sharpe Ratio Analysis

Measures risk-adjusted return. Higher is better.

Formula:

- Annualized Return: $\text{Avg Monthly Return} \times 12$
- Annualized Std Dev: $\text{Monthly Std Dev} \times \sqrt{12}$
- Sharpe Ratio: $\text{Annualized Return} / \text{Annualized Std Dev}$

Interpretation:

- Sharpe > 1.0 → Excellent risk-adjusted return
- Sharpe 0.5–1.0 → Acceptable
- Sharpe < 0.5 → Poor risk-adjusted return

Your Results:

- Average Monthly Return: _____ %
 - Monthly Std Dev: _____ %
 - Annualized Return: _____ %
 - Annualized Std Dev: _____ %
 - Sharpe Ratio: _____
 - **Rating:** Excellent Acceptable Poor
-

Stability Analysis

Parameter Stability Checklist

- MA Period varies < 5% across windows
- RSI Threshold varies < 5% across windows
- Volume Filter varies < 10% across windows
- Profit Factor remains ≥ 1.0 in all windows
- No single parameter dominates the strategy (each contributes to score)

Walk-Forward Consistency

Do your results improve consistently as you move through time?

Window	PF	Sharpe	Trades	Trend
1	___	___	___	→
2	___	___	___	→
3	___	___	___	→
4	___	___	___	→
5	___	___	___	→
6	___	___	___	→

Analysis: Are results consistent across time, or are there unexplained fluctuations?

Final Validation Rubric

Criterion	Weight	Score (0–10)	Weighted
Walk-Forward Pass Rate (75%+ = 10)	40%	___	___
Parameter Stability (low drift = 10)	30%	___	___
Statistical Significance ($p < 0.05$ = 10)	20%	___	___
Sharpe Ratio (> 1.0 = 10)	10%	___	___
		TOTAL SCORE:	___ / 10

Final Decision:

- Score $\geq 8/10$ → **APPROVED FOR LIVE TRADING**
 - Score 6–8/10 → **APPROVED WITH CAUTION** (increase position sizing slowly)
 - Score $< 6/10$ → **NOT APPROVED** (return to research)
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Sign-Off

Strategy Name: _____

Analyst Name: _____ Date: _____

Reviewed By: _____ Date: _____

Approval Status: Approved Conditional Rejected

Comments:

References & Further Reading

1. **Pardo, R. (2008).** *The Evaluation and Optimization of Trading Strategies* – Comprehensive guide to walk-forward testing
 2. **Kaufman, P. J. (2013).** *New Trading Systems and Methods* – Covers overfitting detection
 3. **De Prado, M. L. (2018).** *Advances in Financial Machine Learning* – Advanced validation techniques
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TickFlow Capital

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