**GER30 UK-Time Strategy**  
*(Complete Functional Specification – in Word‐Style Layout, ensuring* ***no details*** *are missed.)*

**1. Introduction**

This document specifies a **fully comprehensive** trading strategy for the GER30 (DAX) index, operating **exclusively on UK local time** with daylight‐savings adjustments. It covers **every** requirement and logic point, including session times, sub‐zones, retraction & tolerance logic, forced closes, sweeps, volatility filters, dynamic spreads, and exact closing rules.

**2. Sessions & Active Zones**

We run **two sessions** daily, in **UK time**:

1. **Session 1**: **08:00–12:30**
   * **Open** at 08:00 → store “session open price” (bid/ask).
   * **Close** forcibly at 12:30 (all trades must be closed by 12:31).
   * **Zones** for opening trades (all times local UK):
     1. **08:16–09:05** → forced close at 09:31, base distance = 45
        + *No standard time‐based close rules.* A trade remains open until 09:31 or if the 40‐point SL is hit.
        + Even if the trade is 70+ points from open, still close at 09:31.
     2. **09:30–09:45** → forced close at 10:06, base distance = 45
     3. **10:15–10:45** → forced close at 12:31, base distance = 70
     4. **10:45–11:45** → forced close at 12:31, base distance = 45
2. **Session 2**: **14:30–17:16**
   * **Open** at 14:30 → store session open price.
   * **Close** forcibly at 17:16 (all trades must be closed by 17:16).
   * **Zones** for opening trades:
     1. **14:46–15:06** → forced close at 17:16, base distance = 45
     2. **15:15–15:45** → forced close at 17:16, base distance = 70
     3. **15:45–16:48** → forced close at 17:16, base distance = 45

**No positions** should remain outside these sessions; we forcibly close them if found open.

**3. Price Tracking per Session**

Each session tracks:

* **Open Price** (at 08:00 / 14:30)
* **High & Low** from session start to end

**Retraction** is calculated as follows:

* If current price ≥ open price, retraction = sessionHigh – currentPrice.
* If current price < open price, retraction = currentPrice – sessionLow.

Retraction determines whether to shift or skip levels (see Section 5).

**4. Tolerance & Entry Levels**

**4.1 Base Levels**

We have four **official** distances from session open: **45, 70, 100, 130** points.  
Each zone is assigned a “base” distance (usually 45 or 70). We apply retraction and tolerance to find a final level.

**4.2 Tolerance (±9 Points)**

If we overshoot a level (e.g., 45) by ≤9 points, we **still** consider that level valid. If we overshoot by >9, we look to the next official level (70, or skip further if retraction says so). Tolerance only extends **further** from the open price (not both directions).

**4.3 Direction**

All trades are placed in the **opposite** direction of the movement from session open:

* Price above open → **SELL**
* Price below open → **BUY**

**5. Retraction Logic**

We define **retraction** bins that affect which level we use or skip:

1. **15–29.9** points → **add +18** beyond the base level
2. **30–35.9** points → **skip 1** official level
3. **36–45.9** points → **skip 2** official levels
4. **≥46** points → if **no trade is open**, block the entire session (no new trades).

**Example**: If the base is 45 but the retraction is 37 (≥36 but ≤45.9), we skip 2 levels (45 → 70 → 100). Then apply tolerance to see if 100 is still valid or we might push to 130, etc.

**6. Combining Tolerance & Retraction**

1. Identify the zone’s **base** distance (45 or 70).
2. Calculate retraction; see which bin it falls into (add +18, skip 1, skip 2, or block≥46).
3. Shift or skip to find the new candidate distance, then pick whichever is **further** from the open if there’s a conflict.
4. Ensure that final distance ≤ **130 + 9** (=139). If >139, no trade.
5. Check if the current actual distance from open is in [finalDistance, finalDistance + 9]. If not, skip.
6. If in range, open a trade (BUY or SELL) with a 40‐point stop loss.

**Note**: This can recur if multiple retractions happen before a trade is placed. Each new retraction or tolerance breach can recalculate the final entry distance. We pick whichever is **furthest** from the open among the newly computed levels.

**7. One Trade per Session**

We only allow **one** open trade per session at a time. Once that trade closes (by SL, forced close, break‐even, or time), we may open another **if** the zone is still active and no volatility/retraction blocks are in place.

**8. Stop Loss = 40 Points**

All trades must have a **40‐point SL**. If broker stop‐level rules disallow it, the trade is skipped. If hit, the trade closes.

**9. Closures & Forced Close Times**

**9.1 Forced Close per Zone**

1. **Session 1**
   * Zone 1 (08:16–09:05) → **09:31**
   * Zone 2 (09:30–09:45) → **10:06**
   * Zones 3 & 4 (10:15–10:45 & 10:45–11:45) → **12:31**
2. **Session 2**
   * All zones → **17:16**

When we reach the forced close time, we close the trade unless it has already closed.

**9.2 Time‐Based Closes (16 vs. 31 Minutes)**

* **If 45–69.9** from open:
  1. If the price moves 15 points adverse and later returns to ±1 point from entry, close at **break‐even**.
  2. Otherwise, close at the **16th minute** from the last beneficial peak (peak high if SELL, peak low if BUY).
* **If 70–129.9** from open:
  1. Close at the **31st minute** from the last beneficial peak.

**9.3 Special Early Zone (08:16–09:05)**

**No normal close logic** applies here (no 15‐adverse or 16/31 min). We only force‐close at **09:31** (unless 40‐point SL is triggered earlier). Even if the distance is 70+ points, we still only close at 09:31 or stop out.

**10. Sweeps & Volatility Blocks**

**10.1 Sweep = 179 Points**

If the market moves **≥179 points** from the session open price at any point, we **close** the open trade for that session. (This replaces any older references to 160; the last official level is 130 + 9 tolerance = 139, plus 40 for SL = 179 total.)

**10.2 Outside Session (17:16–08:00 / 12:31–14:29)**

We do a **once‐per‐minute** check:

* If any trade is open outside the official session windows, we close it. No trades should remain.

**10.3 Overnight Volatility: ≥200 Points**

* If from **17:16** to **08:00** next day we see a **≥200‐point** move, we **cancel Session 1** (no trades that day).
* This can span weekends. If 17:16 is Friday, and by Monday 08:00 we are 200+ points away, skip Monday’s Session 1.

**10.4 Midday Volatility: ≥150 Points**

* If from **12:00** to **14:30** the market moves **≥150** points, we **cancel Session 2** that day.

**11. Money Management (Bet Size)**

**Lots** = (AccountEquity / 800).

* If this is below broker minimum, skip trade.
* As equity grows, the lot size grows proportionally.

**12. Dynamic Spreads**

We adjust our “virtual” bid/ask according to the schedule:

1. **01:15–08:00** = 4.0 points
2. **08:00–09:00** = 2.0
3. **09:00–17:30** = 1.2
4. **17:30–22:00** = 2.0
5. **22:00–01:15** = 5.0

Trades use this shifted ask (for BUY) and bid (for SELL) logic.

**13. Retry Logic for Trade Open/Close**

* Up to **5** attempts to open a trade (OrderSend) if it fails.
* Up to **5** attempts to close a trade (OrderClose) if it fails.

**14. Full Step‐by‐Step Summary**

1. **Session Start**
   * 08:00 or 14:30. Record “open price,” reset high/low.
2. **Check Volatility Blocks**
   * If overnight≥200 → skip Session 1.
   * If midday≥150 → skip Session 2.
3. **During the Session**
   * Identify the active sub‐zone.
   * If no trade open, see if retraction≥46 (block session if no trade).
   * Otherwise, compute final level from baseDist ± retraction skip and check if we are within [level, level+9].
   * If so, open the trade (opposite direction of movement), with a 40‐point SL.
4. **Manage the Trade**
   * If 45–69.9: if 15 adverse returns to ±1 point from entry, close at break‐even, else close on 16th minute from beneficial peak.
   * If 70–129.9: close on the 31st minute from beneficial peak.
   * If in earliest zone (08:16–09:05), ignore the time‐based rule, only forced close at 09:31.
5. **Forced Close**
   * If we hit the zone’s forced close time (e.g., 10:06, 12:31, 17:16), close any open trade.
6. **Sweeps (≥179 from open)**
   * If distance≥179 points from the session open, close immediately.
7. **Outside Session**
   * Once session ends, close all open trades if any remain.
   * Also close any open trades if found 17:16–07:59 or 12:31–14:29 (should not exist).
8. **Stop**
   * If a stop was triggered, trade closes.
   * If retraction≥46 before any open trade, session is blocked. If after a trade, we ignore the block for existing trade but do not open a new one.

**15. Conclusion**

This **final specification** ensures every detail from the original brief is included, such as:

* **UK-time** sessions and exact sub-zones
* **Distance** rules (45, 70, 100, 130) with **9‐point tolerance**
* **Retraction** logic (≥46 blocks session if no trade, or skip levels)
* **Single trade** per session at a time
* **40‐point** mandatory stop loss
* **16‐minute close** for 45–69.9, **31‐minute** for 70+
* **Special earliest zone** (08:16–09:05) ignoring normal time-based closes
* **Sweep** of **179** points
* **No trading** outside session windows
* **Volatility** filters (≥200 overnight, ≥150 midday)
* **Retry** logic (5 attempts) for open/close
* **Money management** with (Equity / 800)
* **Dynamic** spread schedule

No detail from the original specification has been lost. This provides a **100%** functional roadmap for MQL4 or any other implementation.