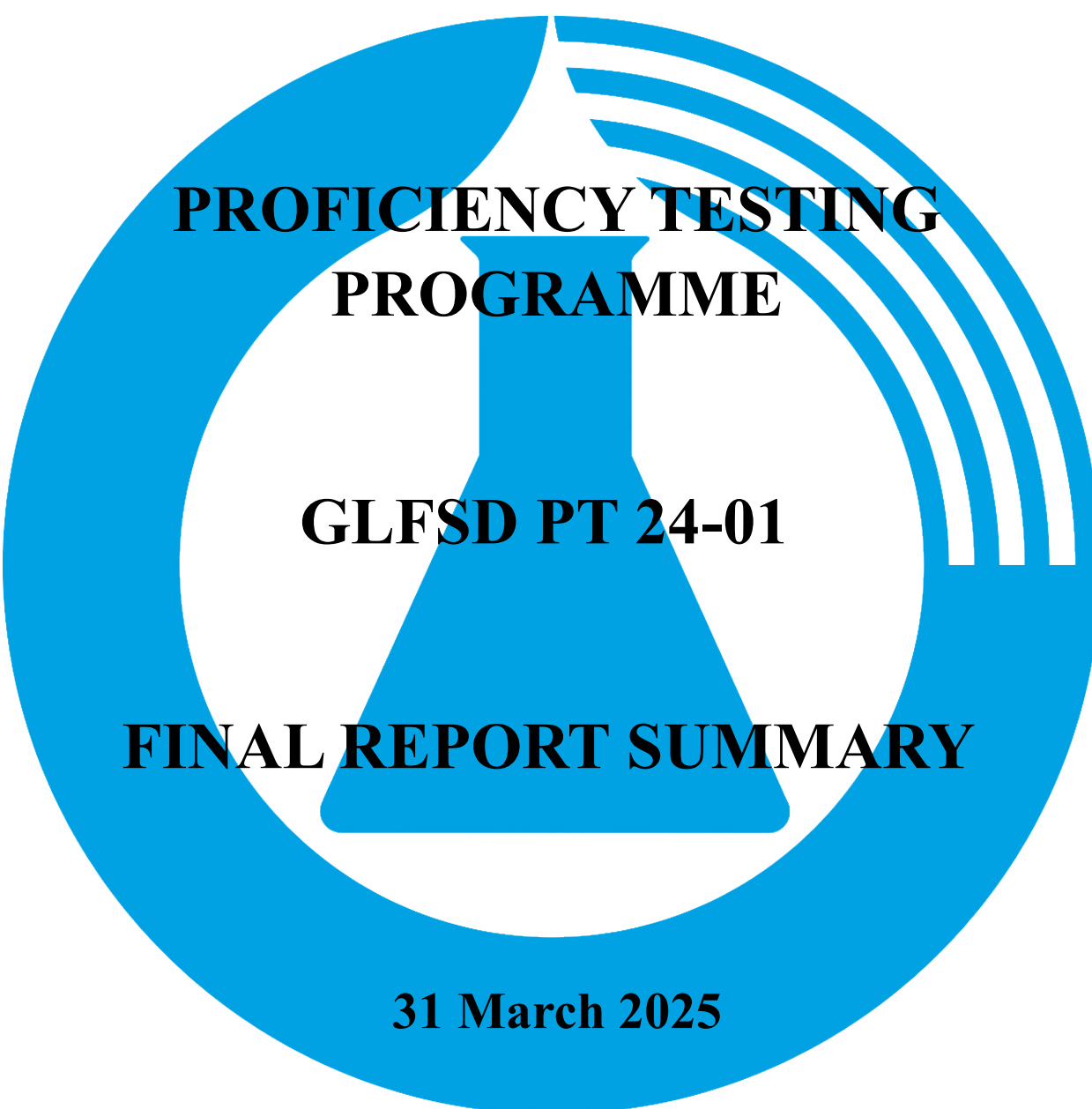


VEHICLE SPEED DETERMINATION FROM VIDEO FOOTAGE



PROFICIENCY TESTING PROGRAMME

GLFSD PT 24-01

FINAL REPORT SUMMARY

31 March 2025



Summary of Results

1. The proficiency testing programme for vehicle speed determination from video footage (GLFSD PT 24-01) was organized by the Government Laboratory of the Government of the Hong Kong Special Administrative Region (GLHK). It aimed at providing an analytical forum for participants in the field of traffic accident reconstruction and evaluating the competency of participating laboratories/institutes which provide speed calculation from video footage to their clients.
2. The PT programme was prepared with reference to ISO 17043:2010 – General Requirements for the Competence of Proficiency Testing Providers.
3. A total of 10 laboratories/institutions enrolled to the PT programme. Among those, 9 laboratories/institutions returned the Result Proforma on or before the deadline. The test results from the participants were evaluated in accordance with the statistical techniques outlined in ISO13528:2022 – Statistical Methods for Use in Proficiency Testing by Interlaboratory Comparison.
4. The assigned values of vehicle speeds in both footage were calculated by dividing the predefined distance of 15 metres by the travel time recorded by Wireless Infra-Red Cells photocells. The performances of the participants were evaluated using z-scores according to Algorithm A.
5. The z-scores of the participants for Questioned Video Footage 1 and Questioned Video Footage 2 were summarized in the following tables:

i) Questioned Video Footage 1

Z-Score	Number of Participants (%)
$ z \leq 2.0$	9 (100%)
$2.0 < z < 3.0$	0 (0%)
$ z \geq 3.0$	0 (0%)
Total:	9 (100%)



ii) Questioned Video Footage 2

Z-Score	Number of Participants (%)
$ z \leq 2.0$	9 (100%)
$2.0 < z < 3.0$	0 (0%)
$ z \geq 3.0$	0 (0%)
Total:	9 (100%)