

RC 910.05

Manual of Testing

CALIBRATION OF A STOPWATCH

1. SCOPE

This method describes the procedure for calibrating a stopwatch, by reference to the Telstra time signal.

2. APPARATUS

- (a) Telephone (03) 1194.
- (b) Worksheet

3. PROCEDURE

- (a) Record the laboratory identification of the stopwatch and the date of calibration.
- (b) Calibrate the watch over the following time intervals:
 - (i) 10 seconds;
 - (ii) 30 seconds;
 - (iii) 1 minute;
 - (iv) 10 minutes;
 - (v) 30 minutes;
 - (vi) 60 minutes; and/or
 - (vii) nominated time intervals for specific requirements.
- (c) Zero the stopwatch.
- (d) Telephone the Telstra time signal.
- (e) Select a suitable starting time and record, also record the required finishing time. (Note 1)

- (f) On the third stroke of the selected start time, press the start button of the stopwatch.

- (g) When the required finishing time is reached on the Telstra time signal, on the third stroke press the stop button, and record the indicated time on the stopwatch.

- (h) Repeat steps (c) to (g) for the time interval a further two times.

- (i) Repeat steps (c) to (h) for each time interval

4 CALCULATIONS

Calculate the mean correction for each time interval.

5. REPORT

Maintain a copy of the worksheet in the laboratory.

NOTES**Note 1**

For long time intervals it will be necessary to re-dial the Telstra time signal just before the required finishing time.

Note 2

In use, the correction should be added to the stopwatch reading to obtain the true elapsed time.