We gratefully express our thanks to IECEE CTL WG2 for their support. In particular, thanks to Allan Chen, Cliff Lin June Fan, Antti Kivikero, and Mary Gu for their assistance.

Operational Summary

NUMBER OF ROUNDS AND FREQUENCY OF TESTING
Creepage and clearance proficiency testing programs operate approximately every 3 years.

APPLICABLE STANDARDS
- IEC 60664-1

SAMPLE PRESENTATION
The sample consisted of a clear plastic plaque fixed to a white plastic base. 4 screws were recessed into the plaque. The plaque also contained a recess for the supplied PCB. Participants were required to place the PCB in different orientations to simulate different samples.

ASSURANCE OF SAMPLE INTEGRITY
Samples were prepared by subcontracted organizations. Homogeneity tests were conducted by the IFM Quality Services. Due to the fact that participants were to provide their drawings showing creepage paths (which were to be evaluated individually), the samples were considered to be sufficiently homogenous for the purpose.

METHOD OF DISPATCH
All samples were sent via express national/international courier.

ASSESSMENT PROCEDURE
Please refer to the assessment criteria on the following pages.

CONFIDENTIALITY
The identity of participants and any identifying information supplied by participants is treated as confidential. Appropriate policies and procedures have been put into place to ensure this confidentiality is maintained.


TEST INSTRUCTIONS
Instructions applicable to this testing round may be found at:

INDIVIDUAL RESULTS
Should individual test results be required, these will be provided upon request.

CORRECTIVE ACTIONS
Where corrective action is required, participants are advised to start as soon as possible. CB scheme and accredited laboratories are expected to register any required action items in their internal quality management system in accordance with the requirements of ISO/IEC 17025:2005.
Participants are referred to IFM’s website for policies relating to participant appeal of assessments and IFM’s role in monitoring corrective actions (http://www.ifmqs.com.au/ifm_terms_and_conditions.htm).

IFM Quality Services will monitor the completion of corrective actions for a period of 3 months from the date of issue of this report. After this time, IFM will refer any remaining open items for CB scheme laboratories to the IECEE secretariat for continuation of this monitoring activity and possible issue of a General Non-Conformity Report.

Please note that corrective actions will only be accepted where evidence is submitted which demonstrates compliance with all items in ISO/IEC 17025:2005 §4.9 - 4.12, including registration of the items in the company’s quality management system, however named. Complete and submit the PTP Outlier corrective action checklist together with the objective evidence requested. http://www.ifmqs.com.au/proficiency/ProgramInformation/PTP-Outlier_Corrective-Action-Checklist.docx

Actions will be closed by IFM only after all required items have been satisfied, namely:

♦ Indication that review of the results has occurred (17025:2005 §4.9, 4.10 and 4.11.1),
♦ Corrective action registration reference/code in the laboratory’s quality management system is provided,
♦ Determination of root cause has been conducted (17025:2005 §4.11.2). Hints and tips relating to acceptance of root cause can be found on: http://www.ifmqs.com.au/proficiency/references/QRD003-01_From_Direct_to_Root_Cause.pdf
♦ The selection and conduct of corrective actions has been undertaken (17025:2005 §4.11.3),
♦ The success of corrective actions has been confirmed (17025:2005 §4.11.4) and
♦ Preventive actions have been developed and implemented (17025:2005 §4.12)
♦ It is the laboratory’s responsibility to ensure they maintain (on-site) accurate records of the conduct of their corrective actions and copies of the reports. As is the case with all non-conformities, these reports and information should be reviewed by the laboratory’s management, internal and external assessors.
♦ It is the responsibility of the relevant NCB and/or accreditation body to review the corrective action reports during on-site assessments to confirm the technical relevance of any findings and actions.
♦ As IFM’s role is only to monitor completion of the corrective action process, individual laboratory submissions will not be held by IFM after the submitted reports have been sighted, checked and logged.

Corrective action forms together with the corrective action checklist are to be submitted via email to proficiency@ifmqs.com.au
Available Tests

<table>
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<tr>
<th>Tests</th>
<th>Assessment Criteria</th>
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<td>Creepage</td>
<td>Participants were assessed based on the path they selected.</td>
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<tr>
<td>Clearance</td>
<td>Robust statistics are applied in order to determine a Z score for each result. Acceptable Z scores are</td>
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Variations to the normal assessment procedure will be detailed in the discussion.

Participation Summary

⇒ 232 organisations enrolled
⇒ 227 organisations participated
⇒ 359 sets of results were submitted
⇒ 1419 individual test results were received
⇒ 1401 results were assessed
⇒ 18 results were not assessed
⇒ 69 results were assessed as outliers

Discussion

The majority of participants were successfully able to determine the shortest creepage and clearance paths. Participants should note that for both creepage and clearance, a number of paths were considered acceptable by IFM.

Small differences in dimensions of routered sections and screw locations on the base board did make differences in the shortest paths expected to be reported by individual participants. Each participant response was assessed individually based on their reported measurements.

A small proportion of participants did not follow conductive parts when determining creepage and clearance paths. These participants received fail assessments and their pathways have not been included in the report.
Creepage

Participants were required to report the shortest path and its distance. The distances reported by participants were used to calculate the shortest creepage path. A number of paths were submitted for test case A and test case B. Participants were assessed based on the creepage path that they selected in the context of other possible paths.

**CREEPAGE - TEST CASE A**

Participants nominated multiple creepage paths for test case A. Of these, 3 could be considered acceptable, and the shortest path was assessed case by case based on the participant reported measurements. Please see Figures 1 - 4. The median path length and number of participants reporting each pathway is shown in Table 1. Chart 1, on page 7, summarises path length reported for each figure.

The paths in Figures 1 and 2 both travel across the top of the PCB. The only difference in these pathways is the creepage path from the conductive track to screw A.

In Figure 1 the creepage path follows the contours of the recess surrounding screw A.

In Figure 2 the distance between screw A and the wall of the recess is less than 1 mm. The creepage path is measured across the top of the grove as this distance is less than the distance X for pollution degree 2.

**FIGURE 1: CREEPAGE PATH FOR TEST CASE A, TOP VIEW AND CROSS SECTION SHOWN.**

**FIGURE 2: CREEPAGE PATH FOR TEST CASE A, TOP VIEW AND CROSS SECTION SHOWN.**
The path in Figure 3 follows conductive track on the underside of the PCB. There are 2 possible creepage paths from the conductive track to the screw. These are analogous to those in Figures 1 and 2. The distance between the screw and wall of the recess determines the allowable path.

![Figure 3: Creepage Path for Test Case A, Top View and Cross Sections Shown.](image)

Only 1 participant reported the pathway in Figure 4 to be the shortest. Measurement by IFM confirmed this path to be as short as Figures 1-3 within the limits of measurement uncertainty.

![Figure 4: Creepage Path for Test Case A, Top View Shown.](image)

**TABLE 1: Path Length and Number of Participants Reporting Each Creepage Path for Test Case A.**

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The majority of participants submitted 1 of 2 creepage paths for test case B. These paths are shown in Figures 5 and 6. Participants reporting these paths received pass assessments.

The path in Figure 5 travels across the top of the PCB.

The path in Figure 6 travels underneath the PCB via the un-cemented joint. The depth of the recess surrounding screw A is not included in either path as the distance is less than 1.5 mm, the X dimension for pollution degree 3.

The path length and number of participants reporting each path is shown in Table 2. Chart 2, on page 9, summarises the path length reported for each path.

**FIGURE 5: CREEPAGE PATH FOR TEST CASE B, TOP VIEW SHOWN.**
TABLE 2: PATH LENGTH AND NUMBER OF PARTICIPANTS REPORTING EACH CREEPAGE PATH FOR TEST CASE B.

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FIGURE 6: CREEPAGE PATH FOR TEST CASE B, TOP VIEW AND CROSS SECTIONS SHOWN.

CHART 2
Clearance

Assessment for clearance was based on Z-scores. See the results section for acceptable creepage path lengths for questions 2 and 4.

IFM did not request diagrams of the clearance paths from participants. However, a number of participants reported their paths. As a result, IFM has included discussion on paths reported by participants. Charts 3 and 4, on pages 11 and 13, show the path length reported by participants for each path for test case A and test case B respectively. As not all laboratories submitted this extra information these histograms do not represent all results.

**TEST CASE A**

The majority of participants reported 1 of 2 clearance paths for test case A. These pathways are shown in Figures 7 and 8. Both of these paths were deemed to be acceptable. The depth of the recess containing the PCB will impact which pathway is the shortest for each sample.

**FIGURE 7: CLEARANCE PATH FOR TEST CASE A, TOP VIEW SHOWN.**

**FIGURE 8: CLEARANCE PATH FOR TEST CASE A, TOP VIEW AND CROSS SECTIONS SHOWN.**
15E11 - Clearance: Test Case A

**CHART 3**
CLEARANCE TEST - CASE B

Participants submitted 4 different clearance pathways for test case B. These are shown in Figures 9-12. Participants reported clearance pathways both over and under the PCB. The depth of the recess; the depth of the recess containing the PCB determines the shortest path for each sample.

The standard applied also impacts the choice of path:

- IEC60950 states that if the distance between 2 conductors is less than the X distances for that pollution degree then the distance is considered to be 0.
- IEC60598-1 states any air gap less than 1 mm wide is ignored in calculating the total clearance, unless the total clearance is less than 3 mm where one third of the air gap width shall be taken into account.
- IEC60664-1, the standard specified in the instructions, does not specify either of the above.

Besides having an impact on path selection, differences in standards is also likely the cause of the higher NIQR for test case B compared to test case A.

Test case A was not affected by variation in standards.

Figure 9: Clearance Pathway for Test Case B, Top View Shown.

Figure 10: Clearance Pathway for Test Case B, Top View and Cross Sections Shown.
FIGURE 11: CLEARANCE PATH FOR TEST CASE B, TOP VIEW AND CROSS SECTIONS SHOWN.

FIGURE 12: CLEARANCE PATH FOR TEST CASE B, TOP VIEW AND CROSS SECTIONS SHOWN.

CHART 4
Results

CLEARANCE DISTANCE

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End of Report
## Electrical Program Status Report

### Creepage and Clearance - 15e11 (201508)

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## Electrical Program Status Report

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### Creepage and Clearance - 15e11 (201508)

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### Report Indicator Columns and Action History Codes

**Column:**

- Action - "Y" when a submitted result was determined to be an outlier requiring corrective action(s) or additional information is required to clarify a result. Action history will then follow.
- Alert - "Y" when corrective or other action(s) have not been completed
- Due Date - Date by which corrective or other action(s) are required to be completed. This date is not set until the FINAL report has been issued.

**Action History Codes:**

- O - Action Opened by IFM
- N - Notification of action sent to laboratory
- A - Acknowledgement received from laboratory
- R - Response received from laboratory
- X - Reminder sent to laboratory
- C - Action Closed (Completed)
- F - Overdue action referred to IEC-EE