



# Collaborative Testing Services, Inc. FORENSIC TESTING PROGRAM

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## *Manufacturer's Information*

### **Toolmarks Examination Test No. 15-528**

Each sample set contained one mini hose cutter (Item 1) and two pieces of tubing containing questioned toolmarks (Items 2 and 3). An additional 5" piece of tubing was included for possible test mark purposes. The Item 3 red tubing (with blue painted end) was cut by the Item 1 hose cutter. The Item 2 red tubing (with green painted end) was cut by a hose cutter that was not provided for examination. Participants were requested to determine which, if any, of the questioned toolmarks were made by the submitted tool.

**SAMPLE PREPARATION:** The hose cutter is a Mini Hose and Tube Cutter, 1/8" to 3/4" OD capacity, 3" length. The red tubing is "Choose-A-Color PVC Tubing Red, 7/16" ID, 5/8" OD, 3/32" Wall Thickness". The elimination tool used is a "KwikCut 100 Plastic Pipe and Tubing Cutter 1/8" to 11/8"OD capacity". The Item 2 tubing was painted with green paint on the end of the tubing not to be examined. The Item 3 tubing was painted with blue paint on the end of the tubing not to be examined. The Mini Hose and Tube Cutters were used to cut spare tubing several times to remove manufacturing residue. This process was done to break in the tools.

**ITEM 2 (ELIMINATION MARK):** The Item 2 tubing (with green painted end) was cut using the KwikCut tubing cutter and packaged into a pre-labeled Item 2 envelope. The above process was repeated until all elimination toolmarks had been prepared.

**ITEMS 1 and 3 (IDENTIFICATION MARKS):** The Item 3 tubing (with blue painted end) was cut and packaged into a pre-labeled Item 3 envelope. The corresponding Mini Hose and Tubing Cutter was packaged into a pre-labeled Item 1 envelope. Item 1 and 3 were then immediately assembled into the sample pack as described below. The above process was repeated until all identification toolmarks had been prepared.

**SAMPLE SET ASSEMBLY:** The corresponding Item 1 Mini Hose and Tube Cutter and the Item 3 tubing were packaged into a pre-labeled sample pack box along with the Item 2 tubing and a 5" piece of tubing for testing purposes. This process was repeated until the required number of sample sets were produced. Once verification was completed, the sample sets were sealed with evidence tape and initialed "CTS".

**VERIFICATION:** In addition to the sets examined by predistribution laboratories and an AFTE representative, 10 sample sets were examined by a qualified toolmark examiner who confirmed the expected identification between Items 1 and 3.