Name:

Date:

School:

Facilitator:

3.01 Toolmark Identification (30 Points)

# Part 1: Toolmark Analysis

**Answer the following questions related to toolmark analysis** (1 point each).

1. Pinch marks left by wire cutters are found on the remains of an explosive device. Are these pinch marks examples of striations or impressions?
2. A knife was used to cut electrical wire at a crime scene. Are the slice marks from this knife an example of striations or impressions?
3. What is the main tool used by toolmark examiners?
4. True/False: A tool can be placed into a toolmark to determine if there is a match.

**Answer the following using 2-3 complete sentences** (5 points)**.**

1. Investigators have collected a pair of pliers from the scene of a crime. They want to know if the marks made by these pliers will match marks found at the scene. Explain how investigators should:

* create these marks
* compare them to those found at the scene
* determine if there is a match

|  |
| --- |
| *Write your response below:* |
|  |

# Part 2: Sample Report

**Use the Sample Report of Forensic Examination: Toolmark Identification (linked on the Task page), as well as what you’ve learned in this lesson, to answer the following questions** (3 points each).

1. **List three tools that are being analyzed in this case.**
2. **List three pieces of evidence that contain toolmarks that are being analyzed in this case.**
3. **From the lesson, what is required for an examiner to make an “identification” between a tool and toolmarks?**

|  |
| --- |
| *Write your response below:* |
|  |

1. List three identifications that were made in this case.
2. Does the term “inconclusive” mean that two marks do not match? Explain.

|  |
| --- |
| *Write your response below:* |
|  |

1. Why could investigators not determine if the bolt cutters (#3) were used to cut the chain links (items 13 through 17)?

|  |
| --- |
| *Write your response below:* |
|  |

1. The submitted screwdriver #2 was eliminated as a potential tool for the impressions made in the wooden door (#33). Why was it eliminated?

|  |
| --- |
| *Write your response below:* |
|  |