

## **Unit Six: Weapons and Tools**

**Estimated Topic Length:** 2 weeks

### **Objectives:**

1. Discuss the significance of tool mark impressions in criminal investigations.
2. Describe three major types of tool mark impressions.
3. Describe variations in tool surface characteristics that are used to identify individual tools.
4. Summarize the steps of a tool mark examination and analysis.
5. Summarize how technology is helping tool experts in criminal investigations.
6. Match tool marks with the instrument that produced them.
7. Describe how tool mark evidence is collected, preserved, and documented.
8. Discuss the differences between a handgun, a rifle, and a shotgun.
9. Distinguish between a bullet and a cartridge.
10. Discuss rifling on a gun barrel and how it affects the flight of the projectile.
11. Explain the relationship between barrel size and caliber.
12. Explain how bullets are test-fired and matched.
13. Discuss the role of ballistics recovery and examination at the crime scene.
14. Determine the position of the shooter based on trajectory.

### **Textbook Chapter:**

- 16 (Tool Marks)
- 17 (Ballistics)