



# RYAN FORENSIC DNA CONSULTING

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## **BASIC / ADVANCED DNA TRAINING PROGRAM** **FOR LAW OFFICERS**

### **Course Overview:**

This course has been designed specifically for law enforcement officers. Whether a patrol officer, or a veteran detective, officers will surely at some point in their careers be involved in a case with DNA evidence. It is therefore imperative that every officer has a working knowledge of forensic DNA analysis including what types of evidence items will typically yield usable DNA profiles and how to properly collect, package and preserve that evidence. The Advanced level course covers hot-button issues such as Familial DNA searches and transfer or touch DNA. In addition, newer DNA analysis methods such as Y-STR analysis and MiniSTR analysis will be covered.

### **Course Length:**

**Basic level students: 4.5 hours**

**Advanced level students: 14 hours (2 day course)**

### **Fees:**

**Basic Course: \$55/student**

**Advanced Course: \$195/student**

### **Topics Covered:**

#### Basic level students:

Biological Evidence Collection  
Forensic Serology Overview  
Forensic DNA Overview  
Understanding the DNA Report  
Forensic DNA Statistics 101  
National DNA Database (CODIS)

#### Advanced Level Students:

Familial DNA Searching  
Transfer/Touch DNA  
Mini-STR analysis  
Y-STR analysis  
Mitochondrial DNA typing  
Plant and Animal DNA analysis  
Plus, all topics covered in the Basic Level program

### **Course Instructor: Suzanna R. Ryan, MS**

Suzanna Ryan is a forensic DNA consultant with over 10 years of experience in the forensic DNA field. Ms. Ryan has a B.S. in Biology from Lock Haven University of PA and a Master of Science in Forensic Science from Virginia Commonwealth University in Richmond, VA. She began her forensic DNA case-working career at the Bode Technology Group, Inc – a private DNA laboratory in Springfield, VA where she also performed DNA analysis on victims of mass disaster such as the Alaska Airlines crash, the Bosnian war, and the World Trade Center disaster. Ms. Ryan also has forensic DNA casework experience in two government crime laboratories, the Florida Department of Law Enforcement and the Charlotte-Mecklenburg Police Department Crime Lab. Suzanna's last laboratory position was as Forensic DNA Technical Leader of an ASCLD/LAB accredited private DNA laboratory in San Diego, CA. Ms. Ryan has personally worked thousands of serology and DNA cases and has testified over 40 times as an expert witness in seven states.