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| **DNA Database PowerPlex® Fusion Training Log** |
| **Training Area** | **Date Completed/Initials** | **Trainer’s Initials** |
| 1. **Education**
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| * 1. **DNA Isolation**
 |  |  |
| Mandatory Reading |  |  |
| Lecture |  |  |
| * 1. **Quantitation of DNA (Optional)**
 |  |  |
| Mandatory Reading |  |  |
| Lecture |  |  |
| * 1. **The Polymerase Chain Reaction**
 |  |  |
| Mandatory Reading |  |  |
| Lecture |  |  |
| * 1. **STR Multiplex Systems**
 |  |  |
| Mandatory Reading |  |  |
| Lecture |  |  |
| * 1. **Capillary Electrophoresis**
 |  |  |
| Mandatory Reading |  |  |
| Lecture |  |  |
| * 1. **Quality Control and Documentation**
 |  |  |
| Mandatory Reading |  |  |
| Understand QC of Reagents |  |  |
| Understand Documentation |  |  |
| 1. **Laboratory Training**
 |  |  |
| * 1. **Sample Processing Quality Control**
 |  |  |
| Cleaning of Equipment |  |  |
| Use of Biosafety Hood |  |  |
| Handling of Samples |  |  |
| * 1. **STR Amplification and Typing**
 |  |  |
| Read and Understand Protocols |  |  |
| Demonstration of PCR Amplification |  |  |
| Supervised PCR Amplification |  |  |
| Successful Completion of DNA Database Amplification Quiz |  |  |
| * 1. **Capillary Electrophoresis**
 |  |  |
| Read and Understand Protocols |  |  |
| Demonstration of Capillary Electrophoresis Instrument |  |  |
| Supervised Use of Capillary Electrophoresis Instrument |  |  |
| Successful Completion of DNA Database Capillary Electrophoresis Quiz |  |  |
| * 1. **Electropherograms and Interpretation**
 |  |  |
| Read and Understand Protocols |  |  |
| Demonstration of GeneMapper ID-X Software |  |  |
| Supervised Use of GeneMapper ID-X Software |  |  |
| Successful Completion of DNA Database STR Typing and Analysis Quiz |  |  |
| * 1. **Manual Competency**
 |  |  |
| Successful Completion of Competency Test Samples |  |  |

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| **Training Area** | **Date Completed/Initials** | **Trainer’s Initials** |
| 1. **Robot Training**
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| * 1. **Logs and Reference Materials**
 |  |  |
| Read and Understand Protocols |  |  |
| Understand Use of Qiagen BioRobot Run Log |  |  |
| * 1. **Robot Orientation**
 |  |  |
| Power Supply and Computer System |  |  |
| Robot Platform, Slots, and Parts |  |  |
| * 1. **Robot Maintenance**
 |  |  |
| * + 1. **Reagents**
 |  |  |
| Use of Decon-Quat 100 and RBS-35 |  |  |
| System Liquid – Nanopure Water 18.2 MΩ-cm |  |  |
| * + 1. Understand Conditional Maintenance
 |  |  |
| * + 1. Perform 1 Supervised Daily Maintenance
 |  |  |
| * + 1. Perform 1 Supervised Weekly Maintenance
 |  |  |
| * + 1. Understand Water Runs and Perform 1 Supervised P90X Protocol
 |  |  |
| * + 1. Perform 1 Supervised Monthly Maintenance
 |  |  |
| * + 1. **Repair, Service, and Calibration**
 |  |  |
| Understand Cleaning Requirements After Service |  |  |
| Understand Performance Check Process |  |  |
| * + 1. Error Codes and Logs
 |  |  |
| * 1. **Robot Protocols**
 |  |  |
| * + 1. **Demonstration**
 |  |  |
| PPF Sample ID Scan and Process Sheets |  |  |
| PPF Direct Amplification – 1 Plate |  |  |
| Explanation of PPF Direct Amplification – 1 to 4 Plates |  |  |
| * + 1. **Supervision of Two Robot Runs**
 |  |  |
| PPF Sample ID Scan and Process Sheets |  |  |
| PPF Direct Amplification – 1 Plate |  |  |
| * + 1. **Independent Performance of Two Robot Runs**
 |  |  |
| PPF Sample ID Scan and Process Sheets |  |  |
| PPF Direct Amplification – 1 Plate |  |  |
| * 1. **Data Analysis and Review**
 |  |  |
| Understand Generation of Paperwork and Electronic Files |  |  |
| Understand Technical Review Requirements |  |  |
| * 1. **Robot Competency**
 |  |  |
| Successful Completion of Competency Test Samples |  |  |
| Successful Completion of DNA Database Qiagen BioRobot Quiz |  |  |
| 1. Amplification, Capillary Electrophoresis, and Analysis of Required Number of Training Samples Using GeneMapper ID-X (Manual and Robotic Combined)
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| **Training Area** | **Date Completed/Initials** | **Trainer’s Initials** |
| 1. **CODIS Operations**
 |  |  |
| CODIS System Lecture |  |  |
| * 1. **Data Entry**
 |  |  |
| Use of Specimen Manager |  |  |
| Entry of Sample Profile |  |  |
| Second Reading Requirement |  |  |
| Sample Uploading |  |  |
| * 1. **Searches**
 |  |  |
| Entry of Sample Profiles |  |  |
| Conducting a Search |  |  |
| Printing of the Report |  |  |
| 1. **CODIS Hit Confirmations**
 |  |  |
| Observe CODIS Hit Confirmation Demonstration |  |  |
| Complete 4 Mock CODIS hit Confirmations |  |  |
| 1. **Expungements**
 |  |  |
| Observe Demonstration of Expungement Process |  |  |
| Complete 2 Mock Expungements |  |  |
| 1. **Courtroom Testimony Training**
 |  |  |
| Attend Lecture on the Court System |  |  |
| Observe 1-3 Court Testimonies |  |  |
| 1. **Final Competency**
 |  |  |
| Successful Completion of DNA Database End of Training Test |  |  |
| Successful Completion of Oral Board |  |  |
| Successful Completion of a Moot Court |  |  |

DNA Database Forensic Scientist Trainee:

DNA Database Forensic Scientist Trainer:

DNA Database Manager:

This trainee is approved to perform DNA Database Analysis.

DNA Technical Leader:

Date: