

## Training Checklist for the Examination of Tape

### Module 1: Introduction to Tapes and Adhesives

	<u>Date Completed</u>	<u>Initials</u>
1. The trainee's progress will be monitored:		
Has read the reading assignments		
2. Evaluation		
Pass a written test		

### Module 2: Stereomicroscopic Evaluation of Tapes and Adhesives

	<u>Date Completed</u>	<u>Initials</u>
1. The trainee's progress will be monitored:		
Has read the reading assignments		
Can separate tape that has been stuck together		
Can identify different classes of tape and record physical observations		
Can remove/recovery trace evidence from tape or adhesive		
Can cross section scrim fibers and tape backing		
Examined the scrim fabrics of a minimum of 10 duct tapes and documented the weave/knit pattern		
Completed Duct Tape Exercise # 1		
Completed Duct Tape Exercise # 2		
Completed the Physical Match duct tape and plastic bags exercise		
Completed section 4.0 of the Training Outline for Physical Match Examinations using tape samples		
2. Evaluation		
Successfully completed the Physical Match Exercise		

**Module 3: Polarized Light Microscopy**

	<u>Date Completed</u>	<u>Initials</u>
1. The trainee's progress will be monitored:		
Has read the reading assignments.		
Can use a PLM		
Has documented the physical properties of packaging and office tape under both transmitted light and crossed polars		
Completed Tape Exercise		
Completed the PLM module in the Fiber Training Outline		

**Module 4: FT-IR**

	<u>Date Completed</u>	<u>Initials</u>
1. The trainee's progress will be monitored:		
Has read the reading assignments		
Can operate the section FTIRs		
Can explain in lay terms how the FTIR works		
Has taken IR spectra of the backings of a minimum of 10 tape samples		
Has taken IR spectra of the adhesives of a minimum of 10 tape samples		
Can acquire consistent spectra from a single source		
2. Evaluation		
Correctly determined if ___ tape samples could have shared a common source, using IR only		
Correctly identified the major components present in IR spectra provided by the trainer		

**Module 5: SEM-EDS**

	<u>Date Completed</u>	<u>Initials</u>
1. The trainee's progress will be monitored:		
Has read the reading assignments		
Has prepared 3 backing samples for SEM-EDS analysis, including a cross-section of a tape backing		
Has prepared 3 adhesive samples for SEM-EDS analysis		
Has observed an operator analyze a minimum of one tape sample using SEM-EDS and has discussed the process of running samples and interpretation of the resulting spectra		

**Module 6: Pyrolysis – GC/MS**

	<u>Date Completed</u>	<u>Initials</u>
1. The trainee's progress will be monitored:		
Has read the reading assignments		
Can explain in lay terms how the Py-GC/MS works		
Has prepared 5 adhesive samples for Py-GC/MS analysis		
Observed Py-GC/MS operator run samples and discussed interpretation		

**Module 7: Casework, Final Evaluation, and Preparation for Court**

	<u>Date Completed</u>	<u>Initials</u>
1. The trainee's progress will be monitored:		
Has read the reading assignments		
Has prepared qualifying questions and a CV		
Understands the possible conclusions of a tape analysis		
Can perform all aspects of casework		
Has observed pretrial conferences and/or courtroom testimony		
2. Evaluation		
Successfully analyze and prepare reports for 2 mock cases.		
Successfully complete moot court / roundtable discussion		
Pass a written test		