

# Latent Print Exclusions and AFIS Solutions

Web-based via Webex

**Cost of participation**

\$795/student

**Instructor | Eric Ray**

**Course Description |** Every accuracy study on latent print examinations clearly demonstrates a relatively high error rate for the Exclusion conclusion. Typically, this is the most common conclusion reached by Latent Print Examiners; however, most training time is spent focusing on the Identification conclusion. This training discrepancy may be at the core of Exclusion conclusion errors. This course offers an in-depth study of latent print Exclusions, policies and procedures to reduce errors, suitability, distortion, target groups, sufficiency, conflict resolution, and bias. Students will complete challenging latent print comparisons that highlight course topics. Integrating AFIS technology into the examination process shows tremendous promise in catching or preventing errors, and students will use AFIS for some class exercises. Upon completion of this course, students will gain confidence in their Exclusion conclusions through a deeper understanding of Exclusions, policy and procedure options, and AFIS technology.

**Course Length |** 5 days / 40 hours This course has been approved for credit towards IAI Latent Print Certification and Re-certification

**Contact Info |** Please send questions regarding the course to [Eric.Ray@us.idemia.com](mailto:Eric.Ray@us.idemia.com).

**Local Contact |** Please send questions regarding the training facility or lodging recommendations to **[email address]**



**Instructor Bio |** Eric Ray began working as a Forensic Scientist in 2007 and is a Certified Latent Print Examiner. He joined IDEMIA as a Product Analyst in 2019 to develop training, gather customer feedback, and recommend product improvements. He earned a BS in Biochemistry and Molecular & Cellular Biology from the University of Arizona. As a member of the International Association of Identification, Eric is on the Editorial Board of the Journal for Forensic Identification and chaired the Special Committee on Latent Print Probability Modeling. He is a member of the OSAC Friction Ridge Subcommittee developing standards for the latent print field. Eric has developed and presented lectures, workshops, and training classes on a number of latent print topics, especially on Reducing Erroneous Exclusion. In his spare time, he also co-hosts the Double Loop Podcast with over 200 episodes discussing fingerprint and forensic topics.



**Instructional Design |** Eric Ray, CLPE, will provide instruction for this course to students remotely via a Webex (or similar web conference software). Students will view a live video feed of the instructor and/or presentation slides for the duration of the course. Students are required to listen and view the audio/video feed for the duration of the course and participate in the interactive elements detailed below. The presentation slides will be provided to students before the training session, and the instructor will answer any questions that arise after the course via email.

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**Measurement Criteria** | To ensure students meet the learning objectives, they will be required to successfully complete a quiz covering course topics via Webex, SurveyMonkey, or similar service. Students will be permitted to reference their notes. The quiz will consist of 20 questions. Students must achieve a score of 80% or more and demonstrate interaction during polls and discussions to receive a course certificate.

## Learning Objectives

- Define the latent print exclusion conclusion its importance
- Describe their agency’s exclusion policies and other policy options
- Demonstrate how to calculate latent print examination error rates
- Demonstrate knowledge of research on exclusion error rates
- Identify options for establishing and documenting latent print suitability
- Identify target group types and differences
- Demonstrate knowledge of hypothesis testing and sufficiency
- Demonstrate use of AFIS technology in latent print analysis, comparison, and evaluation
- Identify policies supporting conflict resolution
- Demonstrate knowledge of bias affecting latent print examinations
- Complete challenging practical exercises and participate in exercise discussion

**Daily Schedule** | Schedule is an estimated target for topics. May change as discussions occur.

	MON	TUE	WED	THU	FRI
Hour 1	Introduction	Exercises	Exercises	Exercises	Conflict
Hour 2		Review			Exercises
Hour3	Research	Distortion	Review	Review	Exercises
Hour 4			Sufficiency		Review
Lunch					
Hour 5	Research	Exercises	Sufficiency	Verification	Bias
Hour 6	Suitability	Review	AFIS	Exercises	
Hour 7		Target Groups	Conclusions		Exercises
Hour 8	Exercises	Comparison			Review