

# Latent Print Exclusions and AFIS Solutions

Web-based or In-person

**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, the vast majority of training time focuses 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.

**Instructor** | Eric Ray

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

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



**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 in an interactive lecture environment in-person or remotely via a Webex (or similar web conference software). The instructor will provide students with the presentation material, comparison exercises, and AFIS software. The instructor will encourage students to participate in class discussions and provide feedback through a post-course survey.

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**Measurement Criteria** | To ensure students meet the learning objectives in the web-based course, they will be required to successfully complete a quiz covering course topics. 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 class discussions to receive a course certificate. Students attending in-person must demonstrate interaction during class discussions to receive a course certificate.

## Learning Objectives

- Define the latent print exclusion conclusion and 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
Hour 3	Research	Distortion	Review	Review	
Hour 4			Sufficiency		Review
Lunch					
Hour 5	Research	Exercises	Sufficiency	Verification	Bias
Hour 6	Suitability	Review	AFIS	Exercises	
Hour 7		Target Groups	Conclusions		Review
Hour 8	Exercises	Comparison			