



RON SMITH & ASSOCIATES, INC.

TIRE IMPRESSION EXAMINATION AND COMPARISON

Course Objective

The purpose of this workshop is to teach new and experienced impression evidence examiners how to conduct examinations, comparisons and searches of tire impressions. This workshop is designed to benefit examiners at all expertise levels. The practical exercises have been prepared in such a manner that each student will be working with material equal to their level of expertise and progress to more difficult assignments as their knowledge and ability grows.



Class instructor:
Christine Craig
Ph.D., CFWE, CSCSA



The student will learn how to properly photograph and document tire impressions at a scene, how to collect tire standards, how to conduct searches for known tires and how to conduct comparisons of questioned tire impressions to known tires. The student will also learn the manufacturing process for tires and retread tires.

Student Expectations

If the student actively participates and follows the instructor's directions as provided, it is fully expected that they will be able to properly photograph and cast a questioned tire impression, create known tire standards, and accurately analyze and compare known tires to questioned tire impressions.

Upon successful completion of this course, the student should be able to:

- *Understand and articulate the nomenclature associated with tires.*
- *Understand the manufacturing process of tires and how it can be used in tire examinations.*
- *Incorporate the use of class characteristics, noise treatment and randomly acquired characteristics into their Comparison phase of the ACE-V process.*
- *Properly Evaluate characteristics and reach accurate conclusions during the tire examination process.*

Daily Schedule

	Monday	Tuesday	Wednesday	Thursday	Friday
8:30am	Photographing and Casting Tire Impressions (a review for class exercises)	Class, <u>Wear</u> and Identifying Characteristics of Tires	Preparation for Examination / Cast cleaning	Retread <u>tires</u>	<u>48 hour</u> tape
9:00am	Outdoor photography & casting *	History of Tires	Remove Tires		Case Presentations / Reviews
10:00am		Tire Construction	Work session with small <u>casts</u>	Source and reference information	
11:00am	Tire Terminology and Basic Information	Noise Treatment			
11:30am	L	U	N	C	H
12:45pm	Methods for producing known tire <u>exemplars</u>	Effects of deflection on tire impression dimensions	Work session with large casts	Turning radius, Track width and <u>wheel base</u>	Videos / Administrative
1:30pm	Known exemplar Exercises (outside)	Report conclusions and writing		Track Measurement Exercise	
3:00pm	Indoor assignments **	Practical Exercises ***	Practical Exercises ***	Practical Exercises ***	
4:00pm				Replace Tires	
5:00pm	Class over	Class Over	Class Over	Class Over	Class Over