



## Spokane County Sheriff's Office

### -Training Announcement -

**COURSE:** **MOTORCYCLE RECONSTRUCTION**

**LOCATION:** Spokane County Sheriff's Office Training Center  
6011 N Chase Rd  
Newman Lake, WA 99025

**DATE:** **May 2 – May 4, 2022**

**TIME:** 0800-1700

**CLASS SIZE:** No Limits

**COST:** \$1,150 for LEO / \$1,495 for Private

**PREREQUISITE:** To attend this course, students should already be Collision Reconstructionists. This course is designed for more specialized training in motorcycle collision reconstruction.

**COURSE INFORMATION:** The Motorcycle Collision Reconstruction course equips the analyst with a firm understanding of motorcycle dynamics and current reconstruction techniques through deep review of literature, sample evidence, and exercises. The following topics are covered: Introduction to motorcycle crash causation, motorcycle anatomy, and specification research, review of kinematics including units, conversions, and derivations of basic equations, fundamentals of motorcycle dynamics (geometry, stability, steering, weight transfer, suspension, etc.), motorcycle inspection, rider perception-response time, braking systems and rider performance, introduction to Excel for collision reconstruction, dynamics of swerving and rider performance, acceleration behavior, calculations, and gearing analysis, sliding friction for downed motorcycles, analysis of wheelbase reduction for determination of impact speed, angular momentum, rider and pillion vault analysis, event data recorders and dataloggers, simulation analyses for impact speed determination, Monte Carlo analysis to determine confidence in speed ranges.

#### **INSTRUCTOR:**

Louis R. Peck, P.E.  
Lightpoint Scientific LLC  
805-364-5208  
[www.louispeck.com](http://www.louispeck.com) / [www.lightpointdata.com](http://www.lightpointdata.com) / [www.axiomforensic.com](http://www.axiomforensic.com)

#### **FOR MORE INFORMATION, CONTACT:**

Sergeant Brett Hubbell  
Spokane County Sheriff's Office  
509-477-3251  
[bmhubbell@spokanesherriff.org](mailto:bmhubbell@spokanesherriff.org)

#### **REGISTRATION:**

For Payment by Credit Card and Registration:  
<http://lightpointdata.com/spokane-mc-recon-registration>

For Payment by Check and Registration:  
Please email Samantha McCool-Hill directly:  
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