



# MOBILE TEAM TRAINING UNIT IV



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**A Statewide System of Inservice Training Program**  
**Illinois Law Enforcement Training and Standards Board**

## PRESENTS

### Crash Investigation and Reconstruction Aerial Photogrammetrist

Mobile Team Training Unit IV is offering this series of three classes designed for first responders planning to fly a sUAS on behalf of their department for all mission types. In addition to this course, the three-course series includes sUAS FAA Knowledge Test Preparation and sUAS Crash Investigation Remote Pilot. Students may choose to attend any combination of classes that meet their needs. Classes will be provided by Northwestern University Center for Public Safety.

Learn to apply photogrammetric modelling techniques to analyze images and video captured at a crash scene. Participants must possess strong computer proficiency.

This hands-on course utilizes the Pix4DMapper photogrammetry modeling software to teach students how to develop 3D models and orthomosaics from crash scene evidence captured with aerial and terrestrial photography. The two-day class covers such important skills as geographic projections and geo-referencing, generating sparse and dense-point clouds and textured meshes, selecting and using manual tie points, generating x-y-z point lists, correcting common problems, and more.

#### Topics include:

- Structure from Motion (SFM) concepts
- EXIF data
- Geographic projections & geo-referencing
- Generation of sparse and dense point clouds and textured meshes
- Selection and use of manual tie points
- Conversion to local coordinate systems
- Generation of X,Y,Z point lists
- Correction of common problems in generated 3D Models
- Exporting to CAD software

All students need to bring a laptop computer with a USB port(s) and both Google Chrome and Adobe Reader installed. Student reference materials will be distributed on USB flash drives (files will accept electronic comments and highlighting and can be saved).

Access to Pix4DMapper will be provided for students.

**Please note:** NUCPS utilizes the Honorlock examination proctoring tool. All students must have Google Chrome and the Honorlock Chrome Extension installed on their computer prior to the first day of class. Instructions for the quick install process can be found at: <https://honorlock.kb.help/install-the-honorlock-extension>

Students need to bring a laptop computer (or other device) with a USB port(s) and Adobe Reader installed. Student reference materials will be distributed on USB flash drives (files will accept electronic comments and highlighting and can be saved).

**DATE:** October 9-10, 2024 8:00 am to 5:00 pm **Registration ends on September 30, 2024**

**LOCATION:** MTTU IV, 1033 7th Street, Suite 102, East Moline, IL

MTTU IV member agencies have priority registration.

**Maximum enrollment is 16**

Cost: MTTU IV MEMBERS: \$ 0.00 - Non-members: \$625

**ILETSB Mandates met:** 16 hours Lead Homicide Investigation continuing education