

# Agenda

## Day One - Thursday, June 27

### Unmanned Aircraft Systems (UAS) Part 107 Seminar Program Overview

#### FAA Regulations

- Regulation history
- Section 333 exemption
- A UAS pilot – is a pilot
- 14 CFR Part 107 – UAS/drone regulations (2008)
- Section 336 – recreational/hobby

#### UAS Licensing Requirements

- Part 107 requirements
- Proficiency and testing
- UAS registrations
- Recurrency testing
- General licensees

#### Airspace Designations

- NAS – National Airspace System
- Special use designations and airways
- Airspace class designations
- UAS airspace restrictions

#### UAS Flight Restrictions

- Airspace restrictions – rules of the road/air
- TFRs – what and when
- Part 107 rules for UAS flights
- Online planning tools

#### Sectional Charts and their Use

- General overview – what is a sectional chart?
- Online sectional charts
- Aviation navigation – a UAS pilot primer

#### Sectional Charts Workshops

- Hands-on workshops using sectional charts

### Day One Overview and Discussions and Q&A

## Day Two - Friday, June 28

### Aviation Weather for UAS Operations

- A pilots weather briefing
- Weather and UAS operations
- METARs and aviation weather
- Weather restrictions

### Airport Operations

- Basic airport knowledge
- Airspace and airports
- Communications needs

### Aeronautical Decision Making

- UAS operations – common sense?
- PAVE/IMSAFE procedures
- Risk analysis for operations

### UAS Crew Resource Management

- Single pilot operations
- Complex mission considerations
- Part 107 crew requirements

### FAA Knowledge Test – General Overview

- Part 107 knowledge test overview
- Exam preparation sources
- Pilot knowledge components
- FAA website portal

### FAA Authorization and Waivers

- Authorization vs waiver
- Waiver process
- Part 107 regulation relief
- Authorization process
- LAANC system

### Practice FAA Commercial UAS Exam - Practice Part 107 Exam for UAS pilots

### Exam Review and Discussion

- Practice exam walkthrough and discussion
- General discussion with Q&A

## UAS Part 107 Remote Pilot FAA Requirements Training Seminar

Fort Washington, PA - June 27 and June 28, 2019

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HalfMoon Education Inc.  
PO Box 278  
Altoona, WI 54720-0278



# Learning Objectives

### *You'll be able to:*

**Explore** the requirements for becoming FAA Part 107 pilot, and discuss testing for certification under Part 107.

**Examine** airspace designations and UAS flight restrictions.

**Learn** about FAA published Section Charts that guide pilots of all aircraft.

**Understand** the areas of required knowledge for the written FAA test, including airport operations and aeronautical decision making.

**Review** for an abbreviated FAA Part 107 Practice Exam.



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# UAS Part 107 Remote Pilot FAA Requirements Training Seminar



A two-day seminar held in Fort Washington, PA  
Thursday, June 27 and Friday, June 28, 2019

**Understand** FAA regulations that apply to unmanned aircraft systems (UAS)

**Explore** UAS licensing requirements, flight restrictions, and airspace designations

**Participate** in hands-on workshops using sectional charts

**Learn** about airport operations and aeronautical decision making (weather, risk analysis) for UAS operations

**Review** the FAA Knowledge Test for UAS and participate in a practice exam

### Continuing Education Credits

#### Professional Engineers

13.0 PDHs

#### Land Surveyors

13.0 PDHs

#### Geologists

13.0 PDHs

#### Floodplain Managers

12.0 ASFPM CECs



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WWW.HALFMOONSEMINARS.ORG

This seminar is being presented for education and training purposes. Attendance does not guarantee a passing grade on the FAA Part 107 exam.

# Faculty

**Mark D. Jones, P.E.** *Principal, Hartech Engineering & Consulting, LLC*

Mr. Jones, P.E. is president of Hartech Engineering which was founded in 2007 as a multi-discipline civil engineering consulting firm providing infrastructure, development and municipal design services for the public and private sectors. Bringing over 30 years of engineering expertise along with specific state-of-the-art, computer-aided technology to achieve efficient, cost saving design solutions, he also provides hydrology and hydraulic studies and reports along with general civil engineering support for prime consultants to PennDOT or local municipality projects. Mr. Jones is a licensed pilot and studied Military Civil Engineering while serving in the USAF and continues his Masters education locally through Penn State. Additionally, he is also a registered professional engineer in the states of Pennsylvania, Maryland, Arizona and Georgia.

# Seminar Information

## Thursday, June 27 and Friday, June 28, 2019

|                                                                                                                       |                                                                         |                                                                               |
|-----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| <b>Hilton Garden Inn Fort Washington</b><br>530 W. Pennsylvania Avenue<br>Fort Washington, PA 19034<br>(215) 646-4637 | Registration<br>8:00 - 8:30 am<br>Morning Session<br>8:30 am - 12:00 pm | Lunch (On your own)<br>12:00 - 1:00 pm<br>Afternoon Session<br>1:00 - 4:30 pm |
|-----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------------|

**Tuition**  
**\$499** for individual registration for both days  
**\$450** each for three or more simultaneous registrations for both days

**Included with your registration:**  
*Complimentary continental breakfast and printed seminar manual.*

**How to Register**

- Visit us online at [www.halfmoonseminars.org](http://www.halfmoonseminars.org)
- Mail-in or fax the attached form to 715-835-6066
- Call customer service at 715-835-5900

**Cancellations:** Cancel at least 48 hours before the start of the seminar, and receive a full tuition refund, minus a \$39 service charge for each registrant. Cancellations within 48 hours will receive a credit toward another seminar or the self-study package. You may also send another person to take your place.

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Attendance does not guarantee a passing grade on the FAA Part 107 exam.***

# Additional Learning

**Webinar Series**

**Low Impact Development (LID)**

- **Introduction to Low Impact Development and Bioretention System Design**  
Wed., June 5, 2019, 11:00 AM - 1:00 PM CDT
- **LID Residential Development and Case Studies**  
Thurs., June 6, 2019, 11:00 AM - 1:00 PM CDT

**Fire Protection and Building Codes**

- **Introduction to Fire Protection and Life Safety Design**  
Thurs., June 6, 2019, 11:00 AM - 12:30 PM CDT
- **Occupancy Classifications**  
Thurs., June 6, 2019, 1:00 - 2:30 PM CDT
- **Means of Egress**  
Fri., June 7, 2019, 11:00 AM - 1:00 PM CDT
- **Fire Protection Features and Occupancy Exercises**  
Fri., June 7, 2019, 1:30 - 3:30 PM CDT

**Distributed Battery Webinar**

- **The Distributed Battery Webinar, Part I**  
Wed., June 12, 2019, 11:00 AM - 2:15 PM CDT
- **The Distributed Battery Webinar, Part II**  
Thurs., June 13, 2019, 11:00 AM - 2:15 PM CDT

**Water Conservation**

- **Evaluating the Owner’s Commitment to Water Conservation and Applicable Codes and Standards**  
Thurs., June 13, 2019, 11:00 AM - 12:30 PM CDT
- **Assessing the Building Site**  
Thurs., June 13, 2019, 1:00 - 2:00 PM CDT
- **Conserving and Reducing Water Use**  
Fri., June 14, 2019, 11:00 AM - 1:00 PM CDT
- **Onsite Water Recycling and Minimizing Water Use**  
Fri., June 14, 2019, 1:30 - 3:30 PM CDT

For more information  
and other online learning opportunities visit:  
[www.halfmoonseminars.org/webinars/](http://www.halfmoonseminars.org/webinars/)

## Continuing Education Credit Information

This seminar is open to the public and offers 13.0 PDHs to professional engineers, land surveyors, and geologists in most states, including Pennsylvania. Educators and courses are not subject to pre-approval in Pennsylvania.

HalfMoon Education is an approved continuing education sponsor for professional engineers and land surveyors in Indiana (License No. CE21700059), Maryland, North Carolina, and North Dakota. HalfMoon Education is also an approved education provider for Florida and New Jersey engineers (Approval No. 24GP00000700).

Course approval is applied for and pending for New Jersey land surveyors. Please confirm course approval prior to registering for this event.

The Association of State Floodplain Managers has approved this event for 12.0 CECs.

Attendance will be monitored and attendance certificates will be available after the seminar for most individuals who complete the entire event. Attendance certificates not available at the seminar will be mailed to participants within fifteen business days.

**Can’t Attend? Order the Manual and Audio from the Live Seminar as a Self-Study Package!**

Audio recordings of this seminar are available for purchase starting at \$450. See registration panel for more information and please refer to specific state licensing rules or certification requirements to determine if this learning method is eligible for continuing education credit.

# Registration

**UAS Part 107 Remote Pilot FAA Requirements Training Seminar**  
Fort Washington, PA - Thursday, June 27 and Friday, June 28, 2019

**How to Register**

**Online:**  
[www.halfmoonseminars.org](http://www.halfmoonseminars.org)

**Phone:**  
715-835-5900

**Fax:**  
715-835-6066

**Code:**

**Mail:**  
HalfMoon Education Inc.,  
PO Box 278, Altoona, WI  
54720-0278

**Complete the entire form.** Attach duplicates if necessary.

**Registrant Information**

Name: \_\_\_\_\_  
Company/Firm: \_\_\_\_\_  
Address: \_\_\_\_\_  
City:\_\_\_\_\_State: \_\_\_\_\_ Zip\_\_\_\_\_

Occupation: \_\_\_\_\_  
Email: \_\_\_\_\_  
Phone: \_\_\_\_\_

**Additional Registrants:**

Name: \_\_\_\_\_  
Occupation: \_\_\_\_\_  
Email: \_\_\_\_\_  
Phone: \_\_\_\_\_

Name: \_\_\_\_\_  
Occupation: \_\_\_\_\_  
Email: \_\_\_\_\_  
Phone: \_\_\_\_\_

Email address is required for credit card receipt, program changes, and notification of upcoming seminars and products. Your email will not be sold or transferred.

( ) I need special accommodations. Please contact me.

**Tuition**

( ) **I will be attending the live seminar.** Single Registrant - **\$499.00**. Three or more registrants from the same company registering at the same time - **\$450.00** each.

( ) **I am not attending.** Please send me the self-study package:

☐ Downloadable MP3 Audio/PDF Manual for **\$450.00**.

☐ CD/Manual Package for **\$490.00**.

(S&H included. Please allow five weeks from seminar date for delivery)

**Checks:** Make payable to HalfMoon Education Inc.

**Credit Card:** *Mastercard, Visa, American Express, or Discover*

Credit Card Number: \_\_\_\_\_

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