



# UASA Instructor Qualification

Program Briefing Update APR 2017

Instructor Qualification Program SEP 2015v6

**THIS PROGRAM MAY BE MODIFIED BY UASA AT ANY TIME**  
**CONTRACTS IN PLACE AUTOMATICALLY ADOPT NEW PROGRAM AFTER 30 DAYS**

**UAS Academy**  
Land.Air.Sea Robotics

# UASA Certification Certificate

## Instructor Certificate



## Instructor Levels

- Blue Seal is a course completion certificate earned by attending a course



- Copper is first pass as instructor
- Silver is first in-course lead pass
- Gold is final lead pass which requires conducting and leading all course workup including client relations (typically 2 courses under mentorship)

# UASA Certification Benefits

## UAS Academy Creative Commons

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- **BY** = Attribution  
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<sup>i</sup> used to imply all digital streaming media including but not limited to audio, video, serial data, and imagery.

<sup>ii</sup> any school that charges tuition is NOT a “non-commercial” purpose.

## Facilities & Equipment

- All UASA operations insured
- All equipment provided
- Back office contract support including 8(a) and Sole Source multi-state contracts
- Recurrent training and add-on course participation at no cost while pursuing certification
- Publication systems focused on Education and Public Safety
- Commercialization systems with direct payment to contractors
- Access to, and management of your MOBAARS and MOST workflow

# Curriculum Ontology

- 100 is sub-sea
- 200 is surface maritime
- 300 is surface land rolling motive
- 400 is surface land ped-based motive or body worn sub-systems
- 500 is earth atmosphere aviation
- 600 is all other aviation
- 700 is T3 professional
- 800 is T3 STEAM educators
- 900 is special projects & topics

# UAS Academy – Land, Sea, Air Curriculum 2016<sub>v7</sub>

**BLUE** = Offered; **GOLD** = Under Development

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Land.Air.Sea Robotics

	MOST Management Development (4-day)	Ground School Test Prep (2-day)	Pilot Qualification (2-day)	Quick Look/Biannual Refresher (1-day)
Air Systems	UASA 655 MOST Team Training	UASA 610 Ground School	UASA 612 Pilot Qualification for DJI Go Application Day-VFR-LOS	UASA 622 Quick Look & Biannual Refresher
	UASA 555 MOST Team Training	UASA 510 Ground School	UASA 512 Pilot Qualification for DJI Go Application Day-VFR-LOS	UASA 522 Quick Look & Biannual Refresher
Land Systems	UASA 455 MOST Team Training	UASA 410 Ground School MOBAARS Qualification	UASA 412 Body Worn MOBAARS Qualification	UASA 422 Quick Look & Biannual Refresher
	UASA 355 MOST Team Training	UASA 310 Ground School	UASA 312 Pilot Qualification	UASA 322 Quick Look & Biannual Refresher
Sea Systems	UASA 255 MOST Team Training	UASA 210 Ground School	UASA 212 Pilot Qualification	UASA 222 Quick Look & Biannual Refresher
	UASA 155 MOST Team Training	UASA 110 Ground School	UASA 112 Pilot Qualification	UASA 122 Quick Look & Biannual Refresher

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	LASR Systems Maintenance (2-day)	Sensor Systems Lab (4-day)	Human Factors Operations Lab (2-day)	Mission Information Lab (2-day)
Air Systems	<div>UASA 630 LASR-Space Maintenance 2-day</div>	<div>UASA 601 System Design Build for Space UAS 4-day</div>	<div>UASA 602 Human Factors &amp; Operations for Space UAS 2-day</div>	<div>UASA 603 Environment &amp; Navigation for Space UAS 2-day</div>
	<div>UASA 530 LASR-Air Maintenance 2-day</div>	<div>UASA 501 System Design Build for In Atmosphere UAV/OPA 4-day</div>	<div>UASA 502 Human Factors &amp; Operations for In Atmosphere UAV/OPA 2-day</div>	<div>UASA 503 Environment &amp; Navigation for In Atmosphere UAV/OPA 2-day</div>
Land Systems	<div>UASA 430 LASR-Body Worn Maintenance 2-day</div>	<div>UASA 401 System Design Build for Body Worn, Stationary UAS 4-day</div>	<div>UASA 402 Human Factors &amp; Operations for Body Worn, Stationary UAS 2-day</div>	<div>UASA 403 Environment &amp; Navigation for Body Worn, Stationary UAS 2-day</div>
	<div>UASA 330 LASR-Land Maintenance 2-day</div>	<div>UASA 301 System Design Build for Rolling-Motive UAS 4-day</div>	<div>UASA 302 Human Factors &amp; Operations for Rolling-Motive UAS 2-day</div>	<div>UASA 303 Environment &amp; Navigation for Rolling-Motive UAS 2-day</div>
Sea Systems	<div>UASA 230 LASR-Sea Maintenance 2-day</div>	<div>UASA 201 System Design Build for Floating UAS 4-day</div>	<div>UASA 202 Human Factors &amp; Operations for Floating UAS 2-day</div>	<div>UASA 203 Environment &amp; Navigation for Floating UAS 2-day</div>
	<div>UASA 130 LASR-Sub Maintenance 2-day</div>	<div>UASA 101 System Design Build for Submersible UAS 4-day</div>	<div>UASA 102 Human Factors &amp; Operations for Submersible UAS 2-day</div>	<div>UASA 103 Environment &amp; Navigation for Submersible UAS 2-day</div>

# UAS Academy – Land, Sea, Air Curriculum 2016v7

BLUE

= Offered;

GOLD

= Under Development;

BLACK

= EXT

UAS Academy

Land.Air.Sea Robotics

	Personal Skill Development	Team Skill Development	UASA LASR PILOT Certification	UASA's Minimum Federal Certification
AIR MOST (UASA 555)	UASA 702 Command & Control Communications (2-day)	UASA 704 Command & Control in DSCA Operations (2-day)	UAB Future Capability	FAA Remote Pilot Certificate
	UASA 701 Command & Control Mission Planning (2-day)	UASA 703 Command & Control in FEMA ICS Operations (2-day)	sUAS MULTICOPTER & FIXED WIND (6-day Capstone)	FAA Remote Pilot Certificate
LAND MOST (UASA 355)	UASA 702 Command & Control Communications (2-day)	UASA 704 Command & Control in DSCA Operations (2-day)	MOBAARS (6-day Capstone)	State or Federal Commercial Vehicle Operators License
	UASA 701 Command & Control Mission Planning (2-day)	UASA 703 Command & Control in FEMA ICS Operations (2-day)	GROUND ROVER (6-day Capstone)	State or Federal Commercial Vehicle Operators License
SEA MOST (UASA 155)	UASA 702 Command & Control Communications (2-day)	UASA 704 Command & Control in DSCA Operations (2-day)	SURFACE MARITIME (6-day Capstone)	USCG Operator Uninspected Passenger Vessel License
	UASA 701 Command & Control Mission Planning (2-day)	UASA 703 Command & Control in FEMA ICS Operations (2-day)	ROV (6-day Capstone)	USCG Operator Uninspected Passenger Vessel License

# **Program Overview**

## **MOST Prerequisites for UASA Instructors**

- LASR-Mode MOST Certification
- MOBAARS Training Completed
- Appropriate License or Certification from Authority
- UASA Independent Contractor Agreement on File



# Program Overview

## LASR Mode Prerequisites for UASA Instructors

- Vehicle System Certification — *your time investment*

### Land:

System Certification (Blue Seal) and 3 Course  
Specific Instruction Seals (Copper/Silver/Gold)

### Air:

System Certification (Blue Seal) and 3 Course  
Specific Instruction Seals (Copper/Silver/Gold)

### Sea:

System Certification (Blue Seal) and 3 Course  
Specific Instruction Seals (Copper/Silver/Gold)

# Program Example LASR-Air

## Common T3 Development Path

Refer to the Red Boxes on Slide 4

- ☐ UASA 555 MOST Blue Seal (Tuition)

LASR-Air T3 Path for Operating a UASA-certified sUAS Pilot Certification Program:

- UASA 510 Certification (Tuition)
  - ☐ Blue Seal as a Participant
- UASA 510 Course Specific Instruction Seals (no tuition, no compensation or reimbursement)
  - ☐ Copper
  - ☐ Silver
  - ☐ Gold
- UASA 512 Certification (Tuition)
  - ☐ Blue Seal as a Participant
- UASA 512 Course Specific Instruction Seals (no tuition, no compensation or reimbursement)
  - ☐ Copper
  - ☐ Silver
  - ☐ Gold
- Unpaid Time Investment (Best Case) is 20 Days
- Tuition Paid (Best Case) is  $\$250/\text{Day} \times 8 = \$2000$ , sUAS rental if needed is extra.

# Pre and Post Course Expectations

- KSAs mastery in accordance with TLO/SLO/cases used in the course
- Ability to manage the course timelines to meet all TLOs
- Exceptional planning and observational KSAs
- Willingness to take action in support of course deviations when circumstances mandate changes
- Ability to deliver all course work products on time
- Completed pre-course oral examination successfully
- Completed post-course follow up and AAR items successfully
- Consistent reputation as “one of the smartest people I’ve met” or similar on course reviews
- Ability to deliver accurate, unvarnished FACTS that fit into the participants domain of operation
- Ability to keep examples within the realm of participants understanding

# UASA Contractual Requirements

- Independent contractor agreement signed
- Task order for any activity that requires reimbursement of expenses or task order payment
- Completion of MOBAARS training prior to completion of “copper” certification
- Copy of all required documents (licenses, medicals, insurance, radio permits, etc) as stipulated in the independent contractor agreement in advance of first participant contact

# Compensation as Consultant

**All expenses approved in advance will be reimbursed within 10 days of proper documentation to UASA**

**No compensation for instructor development time, including extra duties as assigned during contact time**

## **ONCE CERTIFIED**

- Upon completion of CSG Sealed Certificate, instructors are paid on course block time based on an 8-hour/1 day instructional block as follows:
  - Lead Instructor = \$600 per completed block
  - Primary Support (licensed) = \$400 per completed block
  - Secondary Support (licensed) = \$300 per completed block
  - Unlicensed Support = \$200 per completed block
- In all cases this is at least \$50 per hour for the lead instructor if properly delivered
- There are no benefits of any kind for contract instruction other than consulting income as per above
- All taxes are the responsibility of the consultant
- Consultants are limited by law to the amount of instruction they can do for hire with UAS Academy – consult UASA Director of Operations