

HAI presents:

# **Introduction to Vertical Reference Long-Line Course at HELI- EXPO 2013**

This ground school is for pilots who want to embark on a vertical reference long-line external-cargo career, and is also a great refresher course for pilots who have been engaged in other rotary-wing specialty areas and have been out of the vertical reference long-line field for some time. Attendees will be introduced to the working world of external-cargo vertical reference and then guided through the steps to becoming an external-cargo vertical reference long-line pilot.

Course topics will include — Challenges faced when using visual references and proper seating position Aircraft configurations and how it affects the sight picture Visual clues and illusions How control inputs affect the aircraft and long-line cargo load Picking up the load The physics behind long-line loads in flight and the cure for the big swing Turns in the circuit and thrust vectors Loading the disk on approach and delivering the load Use of the shadow and flat-light conditions Commonly used equipment and inspections The composition of the external cargo team and the importance of flight- and ground-crew team building Hazards unique to this environment Aircraft performance considerations Risk management tools and protocols and other safety considerations.

## Event Details

**Sun, Mar 3, 2013 - 8:00 am**  
**Las Vegas Convention Center**  
3150 Paradise Road  
Las Vegas, NV 89109



**Contact: HAI**  
**703-683-4747**

[education@rotor.com](mailto:education@rotor.com)

Select #: EA2546709

Representative Kristin Anderson

Registration is available at  
<http://www.rotor.com/Events/HELIXPO2013.aspx>. Seats are limited. On-site registration is based on availability.

Desk hours:

Friday, Mar. 1 - 1:00 P.M. to 5:00 P.M.;

Saturday, Mar. 2 through Thursday Mar. 7 – 7:00

A.M. to 5:00 P.M.; and

Friday, Mar. 8 – 7:00 A.M. to 1:00 P.M.

**Directions:** Classroom: Level 2, North Hall, Room TBD.

Course Registration Desk: Level 2, North Hall, near Room N253.

#### **A message from the National FAASafety Manager**

Over 10,150 AMTs earned an AMT Award last year. Will you, this year?

Sign up for the FAA's safety services at [www.FAASafety.gov](http://www.FAASafety.gov)!

The FAA Safety Team (FAASafety) is committed to providing equal access to this meeting/event for all participants. If you need alternative formats or services because of a disability, please communicate your request as soon as possible with the person in the "Contact Information" area of the meeting/event notice. Note that two weeks is usually required to arrange services.