

## GNSS for Civil Aviation (2/2)

réf. **GNSS-AC**

Code OACI 179

ENAC - SINA/EES/ELE

### FORMATION EN ANGLAIS

#### DURÉE

5 jours

#### PLACES OFFERTES

18

#### DATES ET LIEUX

No session in 2016, recast in progress

#### CONDITIONS DE PARTICIPATION

Frais pédagogiques :  
Catégorie A  
• 2015 : 1836 €  
• 2016 : 2064 €

Informations pratiques :  
voir en fin de catalogue

#### CONTACT ADMINISTRATIF ENAC

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Bulletin d'inscription obligatoire :  
voir en fin de catalogue

### Objectifs

See previous page.

### Participants concernés

See previous page.

### Contenu

#### Airborne Based Augmentation System

- RAIM: example Least Square Residual Method: Least Squares Position Solution, Detection criterion, Protection levels computation
- RAIM Algorithm specifications from high level requirements: Threat model, False alert, Missed detection
- AAIM: Hybridisation with onboard sensors: example GPS/IRS

#### Satellite Based Augmentation System

- Differential GPS Concept
- SBAS typical architecture and implementation
- SBAS correction, integrity message
- Protection levels computation

#### Ground based Augmentation System,

- GBAS typical architecture and implementation
- GBAS correction, integrity message
- Protection levels computation

#### Lab on GNSS Augmentations

- Use of local network
- Use of EGNOS or WAAS
- Integrity computation

#### Modernized GPS and GALILEO

- Modifications and improvements brought by the future GNSSs
- GALILEO GIC: Integrity monitoring structure, Integrity message, User algorithm
- International cooperation necessary to the deployment of the future systems

For information only : 30 hours

### RESPONSABLE(S) DU STAGE

Anaïs MARTINEAU [Systèmes Informatiques]