

Differential GNSS

réf. **GNSS-DIF**

Code OACI 179

ENAC - SINA/EES/ELE

FORMATION EN ANGLAIS

DURÉE

2 jours

PLACES OFFERTES

40

DATES ET LIEUX

No session in 2016, recast in progress

CONDITIONS DE PARTICIPATION

Frais pédagogiques :
Catégorie B
• 2017 : 756 €

Informations pratiques :
voir en fin de catalogue

CONTACT ADMINISTRATIF ENAC

formationcontinue@enac.fr

Bulletin d'inscription obligatoire :
voir en fin de catalogue

Objectifs

This course emphasizes the fundamentals of differential GNSS baseline techniques with focus on DGPS and an introduction to DGPS RTK applications. The course will explore the various error mitigation techniques and methods for improving the navigation to submeter and high-precision positioning.

Performance aspects with respect to accuracy, integrity, continuity, and availability will be presented.

The course concludes with an overview of available differential available.

Participants concernés

Engineers and executives.

Contenu

Differential GNSS Concept

- Correlated Errors
- Uncorrelated Errors

Code Phase Differential Techniques

- WADGPS
- LADGPS

Precise differential techniques

- Carrier phase ambiguity resolution
- Multi-frequency advantages
- Algorithms for Integer Ambiguity Searches as the key for precise positioning

Error sources of RTK and their mitigation

- Antenna phase center variations (absolute & relative)
- Tropospheric residual errors
- Ionospheric residual error

Overview of differential services available

- Space Based Augmentation Systems (e.g., WAAS, EGNOS, etc.)
- Commercial services

For information only : 12 hours

RESPONSABLE(S) DU STAGE

Anaïs MARTINEAU [Systèmes Informatiques]