GEOGRAPHIC INFORMATION SYSTEMS (GIS) FUNDAMENTALS FOR UTILITIES

October 10-11, 2019
EUCI Office Building Conference Center
Denver, CO

EUCI is authorized by IACET to offer 1.1 CEUs for the course

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OVERVIEW

Geographic information systems (GIS) are becoming a well-known technology that is used every day, not just by all types of organizations all over the world, but also by people. GIS is everywhere: on your phone, on your car, on your watch and even on your GoPro. It is used to visualize any type of features, find patterns, analyze change, create models, tell stories, solve and predict problems, and turn raw data into actionable information and decision making. This course introduces GIS concepts and related tools used by different industries as part of their business models and workflows. This course will show you how to modify and implement other industries’ applications to electric utilities, and where to find tools as well as other resources.

You will learn about development, applications, GPS, remote sensing technologies like LiDAR and how to use them to target renewable energy options, integration between systems like SCADA, trends like UAV’s which are tightly related to geographic information systems, and even enterprise deployments. We will look into the future as well as evaluate new software versions for tools such as the Utility Network tool and its impact on an electric network. Real world use cases will be part of our interactive discussions. The course is ideal for any professionals in the industry who would like to start learning about GIS, but also for the expert who would like to take GIS to the next level or an organization that wants to implement GIS.

LEARNING OUTCOMES

• Familiarize yourself with GIS fundamentals
• Discuss how to deploy and implement a GIS system for any scale organization
• Discuss real use cases
  o United Power, Xcel Energy
  o Distribution vs. transmission
  o Streetlights repair and maintenance
• Identify new technologies
• Review positive and negative factors
• Discuss GIS industries and applications to the electric utility
• Relate how all data is GIS data
• Review data integration and security
• Review data collection and management
• Discuss data sources and types
• Identify what resources you have available
• Apply GIS in the five usage pattern areas: data management, planning and analysis, field mobility, operational awareness, and stakeholder engagement

WHO SHOULD ATTEND

• Any professional in any expertise level in the industry who would like to start leaning about GIS
• For experts who want to take GIS to the next level
• A professional at a utility who wants their company to implement GIS

REGISTER TODAY! CALL 303-770-8800 OR VISIT WWW.EUCI.COM
AGENDA

THURSDAY, OCTOBER 10, 2019

8:00 – 8:30 am  Registration and Continental Breakfast

8:30 am – 5:00 pm  Course Timing

12:00 – 1:00 pm  Group Luncheon

• Why GIS?
• Introduction and Basic Concepts
  o Data types
  o Projections
  o Data accuracy
  o Scales
  o GIS systems architecture and components
  o Geospatial data modeling
  o Survey vs. mapping
  o Cartography
• GIS Applications and Uses as a Tool
  o Open GIS vs. Product GIS
  o Geospatial analysis
  o GPS
  o Programming vs. scripting
• Aerial Imagery and Remote Sensing
  o Definition and concepts
  o Aerial imagery as a base and analysis map
  o LiDAR applications
  o Google Maps
  o Georeferencing
  o Conversions
• Desktop vs. Web vs. Mobile and Other Platforms
  o Desktop software
  o 3rd party vendors
  o ESRI AGOL & Portal environments
  o Web app builder, dashboards, analytics, story maps
• GIS in the Electric Utility Industry
  o Networks and tracing
  o OMS
  o Data integration and modeling
• Data Entry, Integration, Collection, Quality, and Maintenance
  o Asset management
  o Fleet management
  o Field inventory
  o OMS
  o SCADA
  o Customer care
  o AMI
• Data Standardization, Sharing, and Security
  o Metadata
  o Data classification
  o Data models
  o Data and network security
AGENDA

FRIDAY, OCTOBER 11, 2019

8:00 – 8:30 am  Continental Breakfast

8:30 am – 12:00 pm  Course Timing

• Enterprise Deployments and Implementations
  o RDMS
  o Cost
  o Staff structure
  o Internal vs. consultant implementations
  o Environments (production vs. testing vs. development vs. replication/disaster recovery)
  o Investor Owned Utilities vs. Coops vs. Municipalities
  o System migrations
  o User training and customer engagement
  o GIS system administration

• Future Trends
  o UAV
  o Open GIS
  o Utility network
  o Mobile GIS
  o The internet of things
  o Crowd sourcing and online resources
  o GeoEvents
  o AMI

COURSE INSTRUCTOR

Diego Portillo
GISP | GIS, Denver Water

Diego Portillo is a GIS professional with over 20 years of experience in the geospatial field related to different industries—from community development, to planning, consulting, water and electric utilities. His background includes data entry to data management, project management, and implementation. His accomplishments have been recognized by several industries, including the Special Achievement in GIS at the ESRI International Conference in 2006 for his GIS Enterprise Implementation at United Power (Brighton, CO).
EVENT LOCATION

EUCI Conference Center
4601 DTC Blvd., B-100
Denver, CO 80237

NEARBY HOTELS

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EUCI is authorized by IACET to offer 1.1 CEUs for the course.

REQUIREMENTS FOR SUCCESSFUL COMPLETION

Participants must sign in/out each day and be in attendance for the entirety of the course to be eligible for continuing education credit.

INSTRUCTIONAL METHODS

This course will use slide presentation, group discussions, as well as active participation. Attendees will have ample opportunities to actively participate in review questions/answers sessions, group breakout sessions, and simulations/demonstrations offered as part of this course.

REGISTER 3, SEND THE 4TH FREE

Any organization wishing to send multiple attendees to this course may send 1 FREE for every 3 delegates registered. Please note that all registrations must be made at the same time to qualify.
PLEASE REGISTER

GEOGRAPHIC INFORMATION SYSTEMS (GIS)
FUNDAMENTALS FOR UTILITIES COURSE
October 10-11, 2019: US $1395
Early bird on or before September 20, 2019: US $1195

How did you hear about this event? (direct e-mail, colleague, speaker(s), etc.)

Print Name  Job Title

Company

What name do you prefer on your name badge?

Address

City  State/Province  Zip/Postal Code  Country

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List any dietary or accessibility needs here

CREDIT CARD INFORMATION

Name on Card  Billing Address

Account Number

Exp. Date  Security Code (last 3 digits on the back of Visa and MC or 4 digits on front of AmEx)

Billing Zip Code/Postal Code

OR Enclosed is a check for $ to cover registrations.

Substitutions & Cancellations
Your registration may be transferred to a member of your organization up to 24 hours in advance of the event. Cancellations must be received on or before September 6, 2019 in order to be refunded and will be subject to a US $195.00 processing fee per registrant. No refunds will be made after this date. Cancellations received after this date will create a credit of the tuition (less processing fee) good toward any other EUCI event. This credit will be good for six months from the cancellation date. In the event of non-attendance, all registration fees will be forfeited. In case of course cancellation, EUCI's liability is limited to refund of the event registration fee only. For more information regarding administrative policies, such as complaints and refunds, please contact our offices at 303-770-8800.
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