



19210 S. Vermont Avenue, Building A, Suite 100
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www.irwaonline.org

Course 901: Engineering Plan Development & Application

March 17, 2020
Minneapolis, MN



Course 901: Engineering Plan Development and Application

Course Description:

The purpose of this course is to enable participants to improve their plan reading skills in order to perform their jobs more easily, effectively and efficiently. The course is designed to enable participants to improve their skills in using engineering plans and drawings.

Prerequisites: IRWA Course 100 “Principles of Land Acquisition” or IRWA Course 900 “Principles of Real Estate Engineering” (or equivalents), or basic understanding of engineering terminology and principles; and a minimum of two years of right of way engineering experience.

Course Level:

Intermediate

Topics:

- How to read topographic and property information on plans
- The interrelationship of plan, profile and cross section sheets
- How to determine the horizontal and vertical alignment of a centerline
- How to use aerial photogrammetry
- Plane coordinates
- Utility line crossings of highways
- Contour line characteristics
- How to calculate earthwork
- Interpreting right of way plans

Course Tuition Includes:

Participant Manual
Engineering tools (engineering scale, protractor and straight edge)

Required Materials:

Calculator
Pencil

Who Should Take This Course:

This course is designed for the new non-engineer employee who has acquired a basic understanding of engineering terminology and principles and has two years engineering right of way experience. It is also a valuable refresher course for experienced agents.

901 Engineering Plan Development & Application March 7,2020 Minneapolis, MN

Register online at www.irwaonline.org / Fax this entire page to IRWA HQ: (310) 538-1471

Last Name First Name

Title

Company Name

Address

City, State, Zip/Postal Code

(____)____-____ Yes No _____
Phone Member Member ID Number

Email Address

If payment includes the fees for registrants other than yourself, check here:
(Please submit names of other registrants on a separate paper along with this form)
Will you also be attending? Yes No

Member Tuition \$265.00
Non-Member Tuition \$330.00
Total Tuition Amount _____

Total Member Registrants: _____
Total Non-Member Registrants: _____

PRINT NAME AS IT APPEARS ON CARD: _____ **3-DIGIT CVV:** _____

AMEX MC VISA Card #: _____ EXP: _____

SIGNATURE: _____ Date: _____ Amount to be Charged: _____

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Sponsor: IRWA Chapter 20
Date: March 17, 2020
Time: 8AM to 5 PM
City: Minneapolis, MN

Accommodations:
Downtown Minneapolis Hilton
1001 Marquette Ave S.
Minneapolis, MN 55403
Phone: (612) 376-1000
Rate: \$153.00 + tax per night
Contact hotel directly for reservations
Mention the International Right of Way Association Forum's Rate

Class Location:
Fredrickson & Byron
200 South Sixth Street
Suite 4000
Minneapolis, MN 55402
Phone: (612) 492-7444
Participant Capacity: 25

Course Coordinator:
Ben Tozer
Fredrickson & Byron
200 South Sixth Street
Suite 4000
Minneapolis, MN 55402
Phone: (612) 492-7444
Email: btozer@fredlaw.com

Four Ways to Register:
Online: www.irwaonline.org
Fax: (310) 538-1471
Phone: (310) 538-0233, x138
Contact Course Coordinator

Course Instructor:
Fred Easton, Jr., PLS, SR/WA began his career at a young age running a survey rod for his Father's mapping company. After serving in the US Navy and then surveying in Central Florida, Fred has been with Farnsworth Group as a Land Survey & GIS manager for Farnsworth's Colorado survey staff for the past 16-years. He has over 23 years of experience in surveying, mapping, GIS, ROW, and construction. Fred's experience include a wide range of industries including utilities, transportation, public bases and campuses, and commercial development. This has included more than 600 miles of right-of-way projects that required writing land descriptions for land acquisition. He also manages right-of-way acquisition and land management projects, bridging the gap between engineering and negotiation. He has served as expert witness on land boundary issues and floodplain mapping. He currently serves the IRWA as Region 9 Vice Chair and on the Chapter 6 Executive Committee. He is past recipient of the Region 9 and Chapter 6 Professional of the Year awards.

Cancellation Policy: All classes scheduled by IRWA are subject to cancellation. All class registrants must contact the Course Coordinator prior to making travel arrangements, keeping in mind that the class may be cancelled at any time (for reasons including, but not limited to, insufficient registration, Instructor emergencies or other issues beyond the control of the chapter and/or IRWA). Fully liquidated damages for any losses incurred by a class registrant are limited solely to a refund of the registrant's prepaid class tuition. IRWA and its chapters assume no other registrant liability resulting from class cancellation.

Tuition Refund Policy: Written notification of intent to cancel registration must be received via email by both the Course Coordinator and IRWA Headquarters Education Staff (education@irwaonline.org) prior to the class start date in order to be eligible for a tuition refund. A full tuition refund will be issued if notice is received 15 days or more prior to the class start date; a 75% refund will be issued if notice is received less than 15 days prior to the class start date, and no refund will be issued for notice received on or after the class start date.