

Principles of Geometric Design

ABOUT

This is an introductory class on Geometric Design for all those who work in the transportation field including engineers, technicians, educators, and enforcement personnel. The course provides a comprehensive coverage of the basic fundamentals of Vertical, Horizontal and Transition Curvature. The April 6th session will focus on the fundamentals used in geometric design and include vertical curves. The April 13th session will focus on horizontal and transition curves and the integration of vertical and horizontal curves. Both sessions will include presentations, discussion and online exercises, participants will become familiar with the basic concepts and current topics of geometric design for both urban and rural transportation challenges.

- Human and Vehicular Characteristics
- Stopping Sight Distance
- Fundamentals of Geometric Design
- Vertical Curves
- Horizontal Curves
- Transitions including spiral curves

LEARNING OBJECTIVES

At the completion of the course, participants will have an increased understanding of:

- Human and vehicle characteristics that are included in the fundamentals of geometric design
- The application of stopping sight distance to geometric design
- The Federal and State regulations and guidance

used in geometric design

- Basic principles of vertical and horizontal curve design
- Design of transition zones

WHO SHOULD ATTEND?

The webinar is designed for public works, planning and transportation professionals and technicians, elected officials, and the curious citizens.

COURSE LOCATION

Webinar format using Zoom

INSTRUCTIONAL STAFF

Salvador Hernandez, Ph.D.
Kate Hunter-Zaworski, Ph.D., PE (OR)

SCHEDULE

Tuesdays, April 6 and 13, 2021

8:30 am – 12:00 pm

A detailed agenda will be distributed prior to the course date.

ENROLLMENT

Register and submit the course fee online. Make checks payable to The Kiewit Center and submit at least one week prior to the class. Zoom credentials will be provided after registration. If a registration must be canceled, a full refund can be made only if a notice of withdrawal is received at least one week prior to the course starting date. A fee of one-half of the course tuition will be charged for cancellations after that period. *Substitute attendees are encouraged.*

Tuesdays
April 6 & 13, 2021
Webinar via Zoom

\$70
7 PDH

Register Online
cce.oregonstate.edu/traffic-safety-workshops

This publication will be made available in accessible formats upon request. Please call 541-737-4273 for information.



Oregon State
University



Oregon State University
College of Engineering

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April 6 & 13, 2021

Sponsored by

The Kiewit Center
for Infrastructure & Transportation
at OSU

and

Oregon Traffic Safety Division
Oregon Department of Transportation

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The Kiewit Center

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