
Transportation Engineering Fundamentals - Webinar

Oregon State University

November 2 – December 7, 2021

Transportation Safety Division
Oregon Department of Transportation
Salem, OR 97301

The Kiewit Center
Oregon State University
Corvallis, OR 97331

AGENDA

Tuesday, November 2, 2021 (8:30am – 12:00pm) **Basic Concepts- Module 1**

- Introduction and Overview
- Transportation Engineering Overview
- Human Factors, Sight Distance

BREAK

- Geometric Design
- Traffic Stream Capacity
- Wrap-Up, Q&A, Discussion

Tuesday, November 9, 2021 (8:30am – 12:30pm) **Statistics and Traffic Studies- Module 1**

- Travel Time and Delay
- Speed Studies and Speed Zones

BREAK

- Volume and Parking Studies
- Passing Zone and Curve Studies
- Wrap-up, Q&A, Discussions

Tuesday, November 16, 2021 (8:30am – 12:30pm) **Interrupted Flow- Intersections- Module 2**

- Intersection Sight Distance
- Introduction to Traffic Control Devices- Signs

BREAK

- Intersection Design and Control
- School and Pedestrian Zones
- Wrap-up, Q & A, and Discussions

Tuesday, November 23, 2021 (8:30am – 12:00pm)
Traffic Control- Module 2

- Introduction to Traffic Signals

BREAK

- Design and Timing of an Isolated Traffic Signal
- Retro-reflectivity
- Wrap-up, Q & A, and Discussions

Tuesday, November 30, 2021 (8:30am – 12:00pm)
Safety- Module 3

- Statistics for Safety Analysis, Crash Studies

BREAK

- Introduction to the Highway Safety Manual
- Access Management and Medians
- Wrap-up, Q & A, and Discussions

Tuesday, December 7, 2021 (8:30am – 12:00pm)
Risk Management and Non-Motorized Modes – Module 3

- Tort Liability and Risk Management

BREAK

- Non-Motorized Modes (Bike, Ped, ADA)
- ODOT Specific Q&A