TOMNET Transportation Center
Teaching Old Models New Tricks

Ira A. Fulton Schools of Engineering
Arizona State University

TOMNET University Transportation Center Presents an Online Workshop on

Highway Capacity Analysis (HCM6 / HCS7)

May 19-20, 2020

Start Time: May 19, 2020 at 8:00 AM Arizona (MST)
End Time: May 20, 2020 at 3:00 PM Arizona (MST)
Location: ONLINE ONLY (Zoom Video-conferencing System)
Access credentials will be sent to registrants.
Instructor: Mr. William M. Sampson, PE, bsampson@ufl.edu

This Workshop is only offered ONLINE for virtual participation.

Click Here for Details and to Register

About the Workshop

This two-day online training workshop presents lectures, software demonstrations and application examples on the Highway Capacity Manual (HCM) procedures – including updates in the HCM 6th Edition. Step-by-step instruction of the HCM methodologies will be provided for each analytical chapter. The Highway Capacity Software (HCS) implements and automates the HCM procedures. Each lecture will be followed by example problems and software demonstrations using HCS7. Attendees will receive a comprehensive workbook including all slides. The Workshop agenda is as follows:

Day 1

- HCM and HCS Overview, Major Changes, Principles, Concepts
- Freeway Segments (Basic, Weaving, Merge & Diverge)
- Freeway Facilities (Travel Time Reliability, ATDM)
- Highway Segments (Multilane Highways, Two-Lane Highways)

Day 2

- Unsignalized Intersections (TWSC, AWSC, Roundabouts, Corridors)
- Signalized Intersections (NEMA, Phase Duration, Multiple-Period Analysis)
- Urban Streets (Flow Profile, Access Points, Travel Time Reliability, ATDM)
- Ramp Terminals and Alternative Intersections (DDI, DLT, RCUT, MUT)

About the Instructor

William M. Sampson, PE, is a faculty member in the University of Florida (UF) Department of Civil Engineering with over 40 years of experience. He is the Director of the McTrans and T2 Centers and is responsible for technical assistance and ongoing development of the Highway Capacity Software (HCS). He teaches two graduate courses (Traffic Engineering and Highway Capacity Analysis) at the University of Florida. He is a former member of the Transportation Research Board (TRB) Highway Capacity and Quality of Service (HCQS) committee, and continues to serve on several subcommittees.

School of Sustainable Engineering and the Built Environment
660 S College Avenue, Tempe, AZ 85287-3005