Highway Capacity Analysis Training Course

Including Detailed Information on the HCM6 and *HCS7*

This training course presents lectures, software demonstrations and application examples on the Highway Capacity Manual 6th Edition (HCM6) procedures. Step-by-step instruction of the HCM methodologies will be provided for each analytical chapter. The Highway Capacity Software (*HCS7*) implements and automates the HCM6 procedures. Each lecture will be followed by example problems and a software demonstration using *HCS7*. A comprehensive workbook is provided to include all slides

Day 1

Overview   HCM and HCS Overview, Major Changes, Principles, Concepts

Freeways   Freeway Segments (Basic, Weaving, Merge & Diverge)

                  Freeway Facilities (Travel Time Reliability, ATDM)

Highways   Highway Segments (Multilane Highways, Two-Lane Highways)

Day 2

Unsignal   Unsignalized Intersections (TWSC, AWSC, Roundabouts, Corridors)

Streets   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)

Instructor: William M. Sampson, P.E. is a faculty member of the University of Florida (UF) Department of Civil Engineering with over 40 years of experience. He is the Director of the McTrans Center and also 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 UF. He is a former member of the Transportation Research Board (TRB) Highway Capacity and Quality of Service (HCQS) committee, still serving on several subcommittees.