

CE 572 – Spring 2015

Intersection Traffic Operations

Class 12

13 February 2015

HCM2010

VOLUME 4: APPLICATIONS GUIDE

[Methodological Details](#)[Interpretations & Errata](#)[Technical Reference Library](#)[Applications Guide](#)[Discussion Forum](#)

DISCUSSION FORUM

This area is intended for interaction among HCM2010 users to exchange information and ideas on applying HCM2010 procedures. When issues rise to the level that requires formal response from the TRB Highway Capacity and Quality of Service (HCQS) Committee, they should be submitted for Interpretation Request.

SUBFORUM

LATEST ACTIVITY

[General Discussion](#) (37 posts)

General questions, applications, and questions regarding the HCM2010

[HCS 2010 Managed Lane Application and Metric Units](#)

6 months ago
by Yannis Stogios

[Questions & Clarifications](#) (44 posts)

Having trouble with something in the HCM2010? Need further information to clarify a position? Conversations here will help create the ongoing errata for the manual found in the [Interpretations](#) page on this website.

[RE: Bicycle LOS vs Bicycle lane traffic condition](#)

18 days ago
by Peyton McLeod

[Technical Support](#) (26 posts)

Run into problems with the website? Have a suggestion? Let us know here!

[RE: FREEVAL](#)

6 months ago
by Fred Greenberg

Assignment 16 review

- Team review and preparation (5-10 min)
- Presentation of results

Assignment 16 additional tasks

- How would you estimate critical headway with the data that you've assembled?
- What is your estimate of the critical headway?
- How would you estimate the follow up headway?
- What is your estimate of the follow up headway?

Assignment 16 reflection

- Take 10 minutes to prepare a one page summary of what you've learned from this assignment.

Assignment 17

Assignment 17

- Read pp 18.1-18.6 in the HCM 2010 for an overview of the signalized intersection methodology. Prepare an outline of the key points of this section of the HCM. List the terms and/or concepts that you think are most important.
- Read "Signalized Intersection Module Excerpt: Representing Traffic Flow at a Signalized Intersection" and "Signalized Intersection Module Excerpt: Sequencing and Controlling Movements" from the Resources page for a review of traffic flow characteristics at a signalized intersection and how movements are controlled by phases at a pretimed signalized intersection. Prepare sketches of a flow profile diagram, a cumulative vehicle diagram, and a queue accumulation polygon and label the important parts of each sketch. Prepare a sketch of a ring barrier diagram for a standard 4-leg intersection with 8 phases.
- Be prepared to discuss these readings and your notes and sketches in class.