



## PURPOSE

The purpose of this activity is to help you to understand how the maximum green time settings affect intersection operations.

## LEARNING OBJECTIVE

- Describe the advantages and disadvantages of increasing maximum green time on intersection operations

## REQUIRED RESOURCES

- Movie files: A42-1.wmv A42-2.wmv

## DELIVERABLE

- Prepare a document with your answers to the Critical Thinking Questions and your observations from Tasks 1 and 2

## CRITICAL THINKING QUESTIONS

As you begin this experiment, consider the following questions. You will come back to these questions once you have completed the experiment.

1. Are all of the vehicles in the initial queue on the westbound approach served before the end of each green interval?
2. What is the mechanism for termination of the phase serving the westbound approach?
3. What are the advantages and disadvantages of the 40 second maximum green time for the operation of case 1?
4. What are the advantages and disadvantages of the 60 second maximum green time for the operation of case 2?



## **TASK 1**

Open the file: “A42-1.wmv.” Observe the operation of case 1 and record your observations.

- Watch the entire video. It is nearly 3.5 minutes in length. Pay attention to the Critical Thinking Questions listed earlier.
- Record your observations

## **TASK 2**

Open the file: “A42-2.wmv.” Observe the operation of case 2 and record your observations.

- Watch the entire video. It is nearly 4 minutes in length. Pay attention to the Critical Thinking Questions listed earlier.
- Record your observations

