

Chapter/Activity	Skills/Abilities
2/A8	<ul style="list-style-type: none"> • Represent traffic flow on one approach using flow profile diagram, cumulative vehicle diagram, and queue accumulation. Construct and interpret diagrams based on theory and field data. • Define terms: arrival flow, departure flow, saturation flow
3/A13	<ul style="list-style-type: none"> • Define terms: phase and movement, concurrency group, conflict matrix, ring • Construct and interpret ring barrier diagrams for various conditions
4/A17	<ul style="list-style-type: none"> • Define process: gap out, max out • Describe timing process: minimum green timer, maximum green timer, passage timer • Construct and interpret traffic control process diagram
6/A30 6/A36	<ul style="list-style-type: none"> • Define terms: maximum allowable headway, occupancy time, unoccupancy time • Interpret relationships: $h = t_o + t_u$ $t_u = h - \frac{L_d + L_v}{v}$ • Concept: choosing passage time from given data • Concept: relationship between passage time and detection zone length • Describe phase termination analysis • Set passage time based on phase termination analysis
7/A39	<ul style="list-style-type: none"> • Interpret and apply relationship between maximum green time, cycle length, and delay (figures 139-143)
8/A45	<ul style="list-style-type: none"> • Describe various left turn phasing options • Construct and interpret flow profile diagram and queue accumulation polygon for left turn options • Construct and interpret ring barrier diagrams for various left turn options
9/A52 9/A54 9/A55	<ul style="list-style-type: none"> • Define terms: change interval, clearance interval • Interpret choice point diagrams • Interpret field data – stopping and not stopping on yellow display