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EP-97-09

## TRAFFIC CONTROL THROUGH CONSTRUCTION WORK ZONES

Training Program  
Final Report

Prepared by

Robert L. Vecellio  
John R. McCarthy

*Submitted to*

Alabama Department of Transportation  
Montgomery, Alabama

Highway Research Center  
Harbert Engineering Center  
Auburn University, Alabama 36849-5337

December 1997

# TRAFFIC CONTROL THROUGH CONSTRUCTION WORK ZONES

## TRAINING COURSES

<u>Date</u>	<u>Location</u>	<u>Division</u>	<u>Participants</u>
4-21-97	Montgomery	6	30
4-22-97	Troy	7	44
4-30-97	Grove Hill	8	43
5-1-97	Mobile	9	57
5-6-97	Tuscaloosa	5	53
5-7-97	Birmingham	3	84
5-13-97	Tuscumbia	2	53
5-14-97	Guntersville	1	57
5-15-97	Alexander City	4	<u>68</u>
			489

### Employer

Alabama DOT	411
County	63
City	1
Other (Contractors, Consultants)	<u>14</u>
	489

### Instructors:

Robert L. Vecellio  
Director, Alabama T<sup>2</sup> Center  
Auburn University

John R. McCarthy  
Assistant Director, Alabama T<sup>2</sup> Center  
Auburn University

### ALDOT Project Coordinators:

W. Gerald Anderson  
State Traffic Engineer  
Alabama Department of Transportation

Billy Joe DeRamus  
Assistant Traffic Operations Engineer  
Alabama Department of Transportation

# **TRAFFIC CONTROL THROUGH CONSTRUCTION WORK ZONES**

1997

## **Number of Participants**

	<u>State</u>	<u>City</u>	<u>County</u>	<u>Contractor</u>	<u>Consultant</u>
Montgomery	30				
Troy	31		13		
Grove Hill	41		2		
Mobile	45		11		1
Tuscaloosa	48		5		
Birmingham	66		16		2
Tuscumbia	39	1	2	11	
Guntersville	43		14		
Alexander City	<u>68</u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
	411	1	63	11	3

**TOTAL = 489**

**TRAFFIC CONTROL THROUGH  
CONSTRUCTION WORK ZONES**

**COURSE OUTLINE**

<b>TOPIC</b>	<b>Time (Min)</b>
<b>Introduction</b>	15
ALDOT Policy & Procedure	
FHWA Guidelines	
<b>Overview of Traffic Control Elements</b>	20
<b>MUTCD General Provisions</b>	25
Background	
Definitions	
<b>Traffic Control Needs, Problems and Consequences</b>	60
Fundamental MUTCD Principles	
Examples	
Consequences	
<b>Traffic Control Plan Elements</b>	20
Definitions of components	
Tapers	
<b>Traffic Control Devices</b>	75
Signs	
Portable changeable message signs	
Arrow displays	
High level warning devices	
Channelizing devices	
Markings	
Lighting devices	
Other devices	
ALDOT sign sheeting specifications	
<b>Flagging</b>	25
Requirements	
Practices	
<b>Workshop on Devices</b>	25
<b>Traffic Control Plans</b>	30
Rural two lane highways	
Urban streets	
Intersections	
Multilane highways	
Freeways	
<b>Workshop on Inspection and Accident Reporting</b>	30
<b>Installation, Maintenance &amp; Removal</b>	35
Methods	
Inspection	

## COURSE EVALUATION

### TRAFFIC CONTROL THROUGH CONSTRUCTION WORK ZONES

Instructors: Bob Vecellio and John McCarthy

Course \_\_\_\_\_  
Location 9 Courses Date 1997

Course Topic	<u>Emphasis Needed</u>	
	Less	More
ALDOT Policy & Procedure	65 (30%)	149 (70%)
Overview of Traffic Control Elements	82 (42%)	112 (58%)
MUTCD General Provisions	74 (37%)	124 (63%)
Traffic Control Needs, Problems & Consequences	59 (27%)	157 (73%)
TCP Elements	75 (39%)	117 (61%)
Traffic Control Devices	72 (37%)	123 (63%)
Flagging	105 (47%)	117 (53%)
Operations Workshop I - Devices	74 (39%)	117 (61%)
Traffic Control Plans	56 (27%)	150 (73%)
Operations Workshop II - Inspection and Accident Reporting	72 (37%)	123 (63%)
Installation, Maintenance & Removal	87 (45%)	108 (55%)
		Rating*
VISUAL AIDS	<u>8.1</u>	
INSTRUCTION	<u>8.3</u>	
OVERALL COURSE	<u>8.3</u>	

\*Rating: Excellent = 10, Poor = 1

**TRAFFIC CONTROL THROUGH  
CONSTRUCTION WORK ZONES**

**Montgomery**

**April 21, 1997**

**30 Participants**

**List of Participants**  
**Montgomery Work Zone Course**  
**April 21, 1997**

Bowers, Vince  
Briggins, Christopher E.  
Carr, Karen  
Corbin, Brian L.  
Dale, Nathaniel  
Daniels, Jesse  
Driggers, Alice A.  
Estes, Norman Robert II  
Gray, William Keith  
Hall, Randal C.  
Hartley, Thomas Keith  
Henderson, Debra  
Hutto, Thomas J. Jr.  
Isham, Landon J.  
Johnson, Alton Carson  
Jones, Lee Jr.  
Knowles, Mike  
Kromtit, Lawrence B.  
Lewis, Michael J.  
Maness, Walter L.  
Moore, Robert  
Mothershed, Donald  
Price, Raymond  
Shepard, Donald  
Smith, Peter J.  
Tabb, Lloyd  
Tew, Wayne  
Vann, William E.  
Willis, Efreem D.  
Wilson, Lynne D.

## COURSE EVALUATION

### TRAFFIC CONTROL THROUGH CONSTRUCTION WORK ZONES

Instructors: Bob Vecellio and John McCarthy

Course \_\_\_\_\_  
Location Montgomery Date April 21, 1997

Course Topic	<u>Emphasis Needed</u>	
	Less	More
ALDOT Policy & Procedure	5	9
Overview of Traffic Control Elements	4	7
MUTCD General Provisions	4	6
Traffic Control Needs, Problems & Consequences	2	8
TCP Elements	2	8
Traffic Control Devices	3	7
Flagging	3	8
Operations Workshop I - Devices	4	4
Traffic Control Plans	3	8
Operations Workshop II - Inspection and Accident Reporting	3	6
Installation, Maintenance & Removal	6	4
		Rating*
VISUAL AIDS		<u>8.7</u>
INSTRUCTION		<u>8.8</u>
OVERALL COURSE		<u>8.8</u>

\*Rating: Excellent = 10, Poor = 1



## **SUMMARY COURSE COMMENTS**

**Montgomery  
April 21, 1997**

### **Did you benefit from attending this course? Explain how.**

- Yes - I learned about tapering and the required minimum sizes of different devices.
- Yes- By learning correct methods of installing traffic control plans and inspecting these plans and related signs with them.
- Yes - I learned some things that I didn't know.
- Yes - I benefitted from this course.
- Yes - The course was beneficial to me and I will know more about what to look for when I'm inspecting the TCP.
- Yes - I learned more than what I ever thought there was to traffic control.
- Yes - I learned about traffic control safety and about Part VI, Standard and Guides for Traffic Control.
- Yes - Updated on changes in traffic control.
- Yes - More understanding.
- Yes - By learning more about procedures.
- Yes - I did benefit from attending this course I am now aware of the regulations which dictate proper implementation of traffic control devices.
- Yes - I got exposed more to the MUTCD.
- Yes - Yes it reminded me of how important it is to have the TCP up and working as it is supposed to be.
- Yes - (7)

### Other Comments

Condense course down a little.

All ALDOT maintenance employees should be able to attend classes on flagging and traffic control.

Might could condense some.

Refer to book, keep us on same page, very good presentation.

**TRAFFIC CONTROL THROUGH  
CONSTRUCTION WORK ZONES**

**Troy**

**April 22, 1997**

**44 Participants**

**List of Participants**  
**Troy Work Zone Course**  
**April 22, 1997**

Aughtman, Lester C., Jr.  
Barker, Awbrey  
Beck, Steven B.  
Beyer, Walter R. IV  
Brewer, Derek  
Bush, Jon J.  
Byrd, James M.  
Carroll, Walter W.  
Catrett, Lew Wayne  
Champion, Chris  
Chappell, Raymond L.  
Cronin, Charles  
Douglas, William D.  
Dunaway, William J.  
Dykes, Ronald L.  
Ellis, Marvin  
Folmar, Charles K.  
Franklin, Charlotte A.  
Fuller, Bill  
Hagler, James R.  
Hancock, Susan A.  
Holloway, Coley M. Jr.  
Lambert, Gary L.  
Lawson, Sherry L.  
Lee, Joyce A.  
Leverette, Kyle M.  
Massey, Cliff K.  
Meredith, Jonathon M.  
Mount, Edward Lavon  
Oliver, Howard S.

Phillips, Sam  
Powell, Roy F.  
Roberts, Richard H.  
Shelley, Daniel F.  
Shirley, Kevin R.  
Sneed, Homer L. Jr.  
Tillery, James A.  
Walker, Jimmy O.  
Warren, William  
Whaley, Joseph M.  
White, Paul W.  
Williamson, Charlie  
Yelverton, Lee A.  
Yohn, Kenneth E.

## COURSE EVALUATION

### TRAFFIC CONTROL THROUGH CONSTRUCTION WORK ZONES

Instructors: Bob Vecellio and John McCarthy

Course \_\_\_\_\_  
Location Troy Date April 22, 1997

Course Topic	<u>Emphasis Needed</u>	
	Less	More
ALDOT Policy & Procedure	4	7
Overview of Traffic Control Elements	6	3
MUTCD General Provisions	4	5
Traffic Control Needs, Problems & Consequences	5	4
TCP Elements	5	4
Traffic Control Devices	9	4
Flagging	9	2
Operations Workshop I - Devices	5	5
Traffic Control Plans	6	5
Operations Workshop II - Inspection and Accident Reporting	5	6
Installation, Maintenance & Removal	9	4
		Rating*
VISUAL AIDS		<u>8.0</u>
INSTRUCTION		<u>8.8</u>
OVERALL COURSE		<u>8.5</u>

\*Rating: Excellent = 10, Poor = 1

## **SUMMARY COURSE COMMENTS**

**Troy  
April 22, 1997**

### **Did you benefit from attending this course? Explain How.**

- Yes - This course helped me to understand the need for the traffic control devices.
- Yes - I was shown some mistakes that I have seen made in traffic control and how to correct these mistakes.
- Yes - It is always good to review work zone traffic control.
- Yes - Very beneficial, good review of requirements.
- Yes - Learned when and where to place certain signs. Learned what the "G", "W" and "R" mean. Learned the sizes (dimensions) of signs. Learned about setting up work zones, and where to park machinery.
- Yes - Learned standards and guidelines for traffic control and how to do inspection.
- Yes- The materials and information were helpful.
- Yes - Some new ways to sign properly.
- Yes - As well as specifics I'm aware of now and wasn't before; the realities of the importance of traffic control, however minute' it may seem, was brought to light.
- Yes - It qualified me for traffic control inspections.
- Yes - Improved on general knowledge of traffic control.
- Yes - I became more aware of traffic control procedures.
- Yes - Learned a lot.
- Yes - I realized we have a lot of work to do to get the county up to these standards for traffic control and safety.
- Yes - Several areas regarding flaggers were clarified; sign changes were emphasized which I had not previously heard of.

Yes - I enjoyed this class. I had learned quite a bit about the signs and when used.

Yes - Learned we are not suppose to be using orange flags for flagging.

Yes - Interesting, well paced and best of all learned a lot.

Yes (8)

### **Other Comments**

Good emphasis on important points. Possibly offer another course with emphasis on "two-lane rural TCP's" to attract more county workers, and to "seal in" this course for those of us who attended.

I was absolutely too cold.

Some of the visual aids were old and out of date. On flagging procedure we were told the flagger was to stay out of the roadway. Many time workers and instruments must be placed in the roadway and the flagger should be too..

The general public needs to be warned or schooled on the course to protect them and also the worker.

The information was presented entirely too in depth.

The explanations and definitions of each type of sign and device were too long and uncalled for. This class could be completed within the morning half.

**TRAFFIC CONTROL THROUGH  
CONSTRUCTION WORK ZONES**

**Grove Hill**

**April 30, 1997**

**43 Participants**



**List of Participants**  
**Grove Hill Work Zone Course**  
**April 30, 1997**

Baker, Cecil D.  
Bryant, Alan E.  
Calhoun, Nicky L.  
Cannon, James R.  
Champagne, Lisa S.  
Cole, Patricia C.  
Cregar, Michael D.  
Doggett, Rodney  
Ehteridge, Danny J.  
Ezell, John Dennis  
Gafford, David T.  
Geeslin, John W.  
Gibson, Stephen G.  
Graves, William A.  
Halbrook, J. G., Jr.  
Harwell, Frank L.  
Hayes, Larry N.  
Holt, Jerry L.  
Johnson, David M.  
Kennel, Nick  
Knight, Edwin D.  
Kynard, Lörinzol  
McCain, John Val  
Mckay, Curtis M.  
Metzger, Wesley R.  
Mitchell, Kenneth S.  
Noble, Sam M.  
Parker, Russel D.  
Powell, Jeffery H.

Powers, Perry A.  
Pritchett, Adrian D.  
Rainer, Orland N.  
Raybon, Darin W.  
Scott, Marion Lance  
Stuckey, Shannon E.  
Walker, Thomas E. II  
Washington, James E.  
Whatley, George E., Jr.  
Williamson, Billy Ray  
Wilson, Daryl D.  
Wright, Elbert D.  
Wright, Herman I.

## COURSE EVALUATION

### TRAFFIC CONTROL THROUGH CONSTRUCTION WORK ZONES

Instructors: Bob Vecellio and John McCarthy

Course  
Location Grove Hill Date April 30 1997

Course Topic	<u>Emphasis Needed</u>	
	Less	More
ALDOT Policy & Procedure	6	11
Overview of Traffic Control Elements	5	11
MUTCD General Provisions	5	9
Traffic Control Needs, Problems & Consequences	3	15
TCP Elements	4	11
Traffic Control Devices	7	8
Flagging	7	10
Operations Workshop I - Devices	5	10
Traffic Control Plans	5	13
Operations Workshop II - Inspection and Accident Reporting	8	7
Installation, Maintenance & Removal	7	9
		Rating*
VISUAL AIDS		<u>8.1</u>
INSTRUCTION		<u>8.4</u>
OVERALL COURSE		<u>8.3</u>

\*Rating: Excellent = 10, Poor = 1

## **SUMMARY COURSE COMMENTS**

**Grove Hill  
April 30, 1997**

### **Did you benefit from attending this course? Explain how.**

- Yes - I learned more about roadway construction, maintenance, and utility operations. I also learned that there were more signs than I had ever seen. And I also learned how to flag correctly.
- Yes - I did benefit from attending the course. I learned about safety in the work zone and when, where and how to place signs.
- Yes - I really did enjoy and benefit from this class because I learned more about traffic signs and different other activities.
- Yes - The course helped me understand the execution of traffic control devices.
- No - A lot of information to be learned in such a short time.
- Yes - I believe so because I now know about all the traffic control procedures.
- Yes - Because we all need to know how to inspect TCP's for our safety and public safety.
- Yes - Updated on traffic control.
- Yes - Learned something I did not know before attending class.
- Yes - A good review of what we have used in past years.
- Yes - Will help in preparing TCP's.
- Yes - Very good course.
- Yes - Good review.
- Yes - Several things that I did not know were cleared up.
- Yes - A refresher course.

- Yes - I have been made aware of information on how to locate and use the information in the MUTCD.
- Yes - Learned how to implement traffic control plans in different phases of construction and it refreshed my memory of a previous course.
- No - I have already done the work, made no difference.
- Yes - Course was a good refresher on procedures. First course attended since transition from AMUTCD to Federal Manual.
- Yes - Became familiar with the inspection procedures for traffic control devices.
- Yes - I now have a better understanding of the TCP on the projects I work on.
- Yes - Mainly from receiving manuals to refer to out on the project; also, the discussion cleared up some misconceptions on allowable traffic control and devices.
- Yes - I learned about the new ways of setting up traffic schemes. I would like to see this course taught to contractors that are working on ALDOT projects.
- Yes (3)

### **Other Comments**

Good job by instructors.

Root for Alabama instead of Auburn.

Course needed for maintenance people, but not as detailed as this.

Not enough breaks!

Did a job well for the amount of time used.

Trying to cover too much material in a short period of time.

Too long.

**TRAFFIC CONTROL THROUGH  
CONSTRUCTION WORK ZONES**

**Mobile**

**May 1, 1997**

**57 Participants**

**List of Participants**  
**Mobile Work Zone Course**  
**May 1, 1997**

Alms, Fred W., Jr.  
Amberger, Nick  
Brown, James  
Bryars, Benjamin  
Chatmon, Terry Lee  
Clark, Robert E.  
Coleman, Denny K.  
Cook, Johnnie L.  
Cotton, Rodney  
Criswell, Gerald W.  
Curry, Wayne  
Fore, James W. III  
Gilchrist, Stanley C.  
Gipson, Rhonda M.  
Goodman, Thomas W., Jr.  
Gradick, William Henry III  
Graves, Daniel R.  
Gulledge, David C.  
Hall, Jerry D.  
Hardegree, Jeffrey L.  
Harris, Rodrick  
Hawkshead, Marty  
Hayles, Richard Ray  
Hires, Kenneth  
Hoover, Victor  
Jenks, John W.  
Johnson, Leroy  
Jones, Myron L.  
Kossow, Glenn D.  
Martin, Calvin  
McIntosh, James  
Medley, Gary M.  
Melton, Donald R.  
Mitchell, Clyde F.  
Nunnally, Joey D.

Orrell, Jerry L.  
Phillips, Jeff Scott  
Phillips, William  
Powell, Robert H.  
Powers, Dennis L.  
Rogers, Lasharon  
Schlude, Michael F.  
Scott, Adrian  
Sellers, Michael R.  
Sharp, Michael W.  
Sheppard, Scott M.  
Singleton, T. Antroy  
Staimpel, Walter  
Stewart, Wayne L.  
Stockman, Joseph L.  
Terry, Lonnie Anthony  
Washington, Maurice  
Watson, Michal E.  
Wearren, Wendell  
Whitworth, T. Layne, Jr.  
Williams, James H.  
Wright, Frank, Sr.

## COURSE EVALUATION

### TRAFFIC CONTROL THROUGH CONSTRUCTION WORK ZONES

Instructors: Bob Vecellio and John McCarthy

Course \_\_\_\_\_  
Location Mobile Date May 1, 1997

Course Topic	<u>Emphasis Needed</u>	
	Less	More
ALDOT Policy & Procedure	6	16
Overview of Traffic Control Elements	8	7
MUTCD General Provisions	6	12
Traffic Control Needs, Problems & Consequences	7	12
TCP Elements	8	10
Traffic Control Devices	5	13
Flagging	11	9
Operations Workshop I - Devices	8	11
Traffic Control Plans	5	16
Operations Workshop II - Inspection and Accident Reporting	7	13
Installation, Maintenance & Removal	9	9
		<u>Rating*</u>
VISUAL AIDS		<u>8.1</u>
INSTRUCTION		<u>8.5</u>
OVERALL COURSE		<u>8.6</u>

\*Rating: Excellent = 10, Poor = 1

## SUMMARY COURSE COMMENTS

Mobile  
May 1, 1997

### **Did you benefit from attending this course? Explain how.**

- Yes - This course was my first training on traffic control devices.
- Yes - I learned more about signing more projects other than the ones we normally do.
- Yes - Learned a lot about traffic control.
- Yes - Because of the fact that I had never had this class before, therefore, some methods that were being used on projects that I thought was correct ends up that it was not.
- Yes - Because all of the lawsuits that are being filed against ALDOT are due to mistakes in TCP.
- Yes - Because it had been eleven years since this course had been given.
- Yes - I learned more about control of traffic than I know. This course helped me with all phases of traffic control. I also learned about the standards and procedures of traffic control.
- Yes - I learned things that I did not know.
- Yes - A better understanding of TCP operations.
- Yes - I did.
- Yes - A lot I did not know.
- Yes - A good course.
- Yes - Did some things that I had done before.
- Yes - How to sign roads.
- Yes - It improved my information.
- Yes - Became more aware of the importance of proper diverting of traffic.



- Yes - They did not just drone on, laying down the law but they explained the reasons for the law, so to speak. They gave us clear and concise explanations and useful handout material.
- Yes - More understanding of how to access a traffic control problem.
- Yes - Minimum specifications for signs, spacing of signs, TCP, and when signs are used or not used.
- Yes - This information and schooling will help me very much in my everyday safety job performance, thanks.
- Yes - I learned a lot by being in this class.
- Yes - I did in the work zone traffic.
- Yes - Learned about traffic control since this was my first exposure to traffic control planning.
- Yes - Because I am still learning about traffic control in work zones.
- Yes - Because things have changed from the way I was taught.
- Yes - I did in the work zone traffic.
- Yes - I thought the course was well taught, we learned a lot.
- Yes - I learned more about how to set up work areas, what devices to use and how to use them.
- Yes - This course was very educational, we need more courses like this so that the state employee can be updated on this material. I think it is a very good course.
- Yes (4)

### **Other Comments**

Could have read the books myself.

Good presentation, course time for topics was adequate.

The information if used correctly can save lives and money.

The main thing is to stress the importance of our legal standpoints and let us know what we are responsible for. Give us a clearer picture of what is expected of us as inspectors. I was pleased with your course and found it very informative.

This would be a good class for contractor personnel.

**TRAFFIC CONTROL THROUGH  
CONSTRUCTION WORK ZONES**

**Tuscaloosa**

**May 6, 1997**

**53 Participants**

**List of Participants**  
**Tuscaloosa Work Zone Course**  
**May 6, 1997**

Abrams, John  
Arnold, Glenn  
Branch, Willie III  
Brown, Geneva M.  
Cantrell, Alvis L.  
Clemmons, E. Nell  
Clifton, Virgil M.  
Coley, William A.  
Crocker, Darren F.  
Crocker, George W.  
Dunn, Celena  
Edwards, Kenneth R.  
Edwards, Roddy D.  
Ferguson, Elaine R.  
George, William C.  
Gohde, G. Richard  
Groom, Jerry Paul  
Guyton, Daryl D.  
Hall, Earnest  
Haney, Daniel R.  
Hardin, Richard  
Hardy, Horace H., Jr.  
Jackson, Ronald D.  
Jacobs, Milton R.  
Jones, Robert L.  
Kemp, David A.  
Kemp, Richard  
Knox, Grady William  
Limerick, Roger  
Little, Bobby L.  
Lowery, Jimmy R.  
McGuire, Jack H.  
McPherson, Norman W.  
McPherson, Robert S.  
Mitchell, Lonnie

Moses, Samuel Lynn  
O'Neal, Gordon K.  
Osburn, Wayne J.  
Pearson, Marty  
Philon, Harold LaDel  
Plenty, Sandra D.  
Rhodes, Dennis S.  
Rice, Alvah D.  
Sellers, Earnest L.  
Singley, Larry L.  
Sluder, Clayton D.  
Smith, Danny  
Sommerville, Alphonsia, Jr.  
Stokes, Emanuel  
Sutton, Terry L.  
Taylor, Tim  
Tilley, Derek  
Yerby, Donna J.

## COURSE EVALUATION

### TRAFFIC CONTROL THROUGH CONSTRUCTION WORK ZONES

Instructors: Bob Vecellio and John McCarthy

Course \_\_\_\_\_  
Location Tuscaloosa Date May 6, 1997

Course Topic	<u>Emphasis Needed</u>	
	Less	More
ALDOT Policy & Procedure	2	29
Overview of Traffic Control Elements	5	24
MUTCD General Provisions	7	23
Traffic Control Needs, Problems & Consequences	4	24
TCP Elements	4	21
Traffic Control Devices	7	19
Flagging	6	23
Operations Workshop I - Devices	4	24
Traffic Control Plans	4	25
Operations Workshop II - Inspection and Accident Reporting	6	20
Installation, Maintenance & Removal	5	21

	<u>Rating*</u>
VISUAL AIDS	<u>8.2</u>
INSTRUCTION	<u>8.3</u>
OVERALL COURSE	<u>8.2</u>

\*Rating: Excellent = 10, Poor = 1

## SUMMARY COURSE COMMENTS

Tuscaloosa  
May 6, 1997

### **Did you benefit from attending this course? Explain how.**

- Yes - I feel better informed and qualified traffic as a control inspector. I should have had this class nineteen years ago. It is well presented. The course should be taken very seriously.
- Yes - I learned the difference between drums and barrels and how to figure the distance between construction signs in work zones.
- Yes - Lots of information given.
- Yes - This course helped me to update my traffic control skills, which by working in construction is really needed.
- No - Information given did not pertain to my job.
- Yes - Learned a lot.
- Yes - I learned proper traffic control.
- No - Very little benefit, the course was rushed through.
- Yes - Project inspection and administration.
- Yes - Speed limit for barricades, types and flag color.
- Yes - I know what to look for when inspecting TCP.
- No - Very little benefit, most of this was common sense.
- Yes - There was a lot of helpful information covered in this class.
- Yes - Too much information too fast.
- Yes - This is a very serious part of road work.
- Yes - A very good test, it was excellent, very good instructors.
- Yes (3)
- No (2)

**Other Comments:**

Good job.

The course should have been two days or more to get all the much needed information across.

This class should be extended to two or three days. Too much material was covered in this class.

Keep the good work up.

**TRAFFIC CONTROL THROUGH  
CONSTRUCTION WORK ZONES**

**Birmingham**

**May 7, 1997**

**84 Participants**



**List of Participants**  
**Birmingham Work Zone Course**  
**May 7, 1997**

Barnett, Keith Michael  
Beersdorf, James H.  
Bobo, John Robert  
Bolton, James R.  
Boozer, Ken  
Boswell, Clarence  
Brown, Rhenae C  
Brundidge, Theodore  
Butler, Nathan  
Butsch, Rodney W.  
Bynum, Joe C.  
Cashion, Linda  
Clark, Mae E.  
Deavers, Debbie  
Dennis, Tommy  
Dudley, Sammy  
Estes, James David  
Evans, Mark C.  
Gillam, Dwayne A  
Goodwin, Charles M.  
Graham, Carl C.  
Gray, Jerry M.  
Hand, David J.  
Hill, Cynthia L.  
Holladay, Scott  
Hooks, Renya M.  
Hulsey, Donald W. Jr.  
Ingle, Paula S.  
Iwuoha, Victor  
Johnson, Clarence E.  
Jones, Glen E.  
Jones, Willie Jr.  
Kelley, Harold Wayne  
Key, Philip D.  
Kidd, Willie Joe  
Kilpatrick, James E.  
Kirby, Molli S.  
Lamberth, Sylvia W.  
Long, Lonnie  
Magouirk, Edward E.  
Maner, Jamie Lee  
Mann, Benny Darvan

May, Debra T.  
McCandless, Elizabeth L.  
McGlawn, Adrian  
McKee, Gregory C.  
McKinney, Christopher D.  
Meadows, David  
Meriwether, W.L.  
Moore, La Nese  
Moore, Linda H.  
Montgomery, Jonathan  
Musulman, Carlo A.  
Newby, Lafarrow  
Nunnally, Brian  
Payne, Delene  
Pennington, James N.  
Perryman, Larry  
Raines, Jeremy M.  
Richards, Michael T  
Richardson, William Alvin  
Rigsby, Jamie L.  
Robertson, Herschel  
Robinson, Aaron  
Roe, Randal K.  
Sanders, Lewis Jr.  
Spears, Sylvester J.  
Stephens, J. Wayne Jr.  
Stephens, Marc M.  
Strain, Billy J.  
Taylor, Russell L.  
Thomas, James E.  
Thomas, Sonya F.  
Topping, Richard K.  
Wadkins, Kelly S.  
Wallace, Louie P. III  
Wallace, Timothy Wayne  
Watkins, Jon D.  
Widner, Philip  
Wilson, John D.  
Wood, Wesley  
Woods, Sue H.  
Wrenn, Lloyd E.  
Yeager, Bill

## COURSE EVALUATION

### TRAFFIC CONTROL THROUGH CONSTRUCTION WORK ZONES

Instructors: Bob Vecellio and John McCarthy

Course \_\_\_\_\_  
Location Birmingham Date May 7, 1997

Course Topic	<u>Emphasis Needed</u>	
	Less	More
ALDOT Policy & Procedure	15	23
Overview of Traffic Control Elements	15	23
MUTCD General Provisions	15	24
Traffic Control Needs, Problems & Consequences	8	36
TCP Elements	15	24
Traffic Control Devices	10	29
Flagging	20	23
Operations Workshop I - Devices	16	25
Traffic Control Plans	7	31
Operations Workshop II - Inspection and Accident Reporting	11	28
Installation, Maintenance & Removal	19	18
		<u>Rating*</u>
VISUAL AIDS		<u>7.7</u>
INSTRUCTION		<u>8.4</u>
OVERALL COURSE		<u>8.1</u>

\*Rating: Excellent = 10, Poor = 1

## SUMMARY COURSE COMMENTS

**Birmingham**  
**May 7, 1997**

### **Did you benefit from attending this course? Explain how.**

- Yes - This course helped me to see what I can do and things I cannot do. This course has given me a good overview on traffic control devices, policy and procedure.
- Yes - This was a good class.
- Yes - I liked the course.
- Yes - Because it enabled me to review the right traffic control devices and showed the correct way to set up the devices. It is a good refresher course. Knowing that you cannot use damaged devices and learning better public relations, the do's and the don'ts.
- Yes - I learned a great deal from this course. I thought that it was very well taught and had very good handouts and video material.
- Yes - I learned a good bit.
- Yes - It refreshed my mind on proper traffic control procedures. I had taken the course several years ago. But it is entirely too long.
- Yes - I learned more about traffic control situations so that I can now limit mistakes made on my job pertaining to traffic control plans.
- Yes - Instructors did very well presenting some very dry material and making it as interesting as possible.
- Yes - I learned some things. It reminded me of some things I had forgotten. Good handouts. Wish they could have a design portion and an operations portion so that people could attend the portion they have most interest in or would be most beneficial. I personally benefitted from both aspects: design and operations.
- Yes - Instruction of placement and removal of lane closure.
- Yes - But only marginally, more time is needed.. A couple of days of material is presented quickly in a narrow time frame. Some or many sections of the MUTCD manual were omitted. Less time on cones please. Certainly, safety of ourself, contractor, crews and motorists is worth more time spent on this course. For example, one day per week for six or eight weeks. No more "tomatoes against the wall approach".

Yes - Knowledge about signs and flagging.

Yes - I did because it's been a while since I've had contact with out on the road work. Things have changed since I was last out on the road. The class was explained in detail. I really got a lot out of this class, and it also helped me as a motorist. I really don't think it would hurt for the general public to attend these classes. Maybe they would learn from it to help prevent so many wrecks.

Yes - Very beneficial information given, to protect the public, workers and inspectors.

Yes - Only slightly. No longer involved with traffic control.

Yes - I did, it made me aware of the manual on uniform traffic devices and the proper usage.

Yes - I learned how to protect myself as well as the public.

Yes - I thought the class was informative and gave me a better idea of how to perform traffic control better.

Yes - Helped me make better plans for the public safety and the crew I work with.

Yes - It was a good chance to use the manual in practice situations. It will help to know what to look for and where to look.

Yes - Some information I had seen but understood better from the course.

Yes - A good update.

Yes - It covered a lot I did not know.

Yes - I have had this course before, some new changes that were covered were helpful.

Yes - Some benefit..

Yes - The course provided a basic knowledge of reporting and maintaining TCP during construction.

Yes - The handouts were very helpful and informative.

Yes - Better understanding of traffic control devices.

Yes - I have not attended this class before and I work in design. Information helpful as I work on different types of plans.

Yes - I am more learned in traffic control devices and much more aware of situations that can occur. And that there is no flagman but flagger signs.

Yes - Somewhat, however one day could not possibly be enough time to teach any course. I did on the other hand learn a different dimension on signs, the function of the devices to maintain accident free traffic control.

Yes - Class was very informative. Some parts were long and boring, particularly the part where we went over every type of warning sign.

Yes - I did not realize there was so much to traffic control.

Yes - I learned a lot of things about traffic control.

Yes - I know more.

Yes - More about traffic control and the usage of traffic control equipment.

Yes - I learned the importance of good traffic control procedures in a construction zone and what is expected of me in my position as a traffic control person.

Yes - I learned how traffic control devices should be properly set up and the way they should be. I'm not sure I know how to read the plans to find out how it should be and I know where to go to the MUTCD to find out whatever I don't know.

Yes (4)

**Other Comments:**

Course too long.

Need more training and understanding of how important traffic control is concerning lawsuits.

Needed more breaks during class, people became tired and restless. Needed more time to present class material.

Please update your slides and let this class out earlier.

Class should be stretched to two or three days. It is too much information to be accurately taken in an eight hour period, thereby rushing the class and not giving certain areas sufficient coverage.

Thank you for teaching us this course.

Need updated slides, although some of the clothes have come back in style.

An excellent day.

If it wasn't for the amount of information needing to be taught in such a short amount of time, more breaks would have been helpful.

Please give more seminars on this course for three to five days to instill more information; and for the personnel to grasp the information. One day isn't enough.

Too much too fast.

Need to update slides with actual footage on VMS.

Class should be shortened.

Too long.

First slide presentation on flagging was out of date and unrealistic.

**TRAFFIC CONTROL THROUGH  
CONSTRUCTION WORK ZONES**

**Tuscumbia**

**May 13, 1997**

**53 Participants**

**List of Participants**  
**Tuscumbia Work Zone Course**  
**May 13, 1997**

Barnes, Rodney  
Beal, Fred  
Bedsole, Jonathan  
Bridgman, Glenn  
Brown, Fred  
Cooper, Jerry W.  
Dale, Mark F.  
Dotson, Titus M.  
Elliot, Arthur  
Farris, William M.  
Fleming, Jeffrey Dean  
Ford, Julian  
Garner, Hiram P.  
Geise, Patsy  
Gilbreath, Mike  
Goode, Jamie  
Green, Kenneth R.  
Hand, David M.  
Hand, Michael  
Hankins, Alton  
Harris, Benard  
Henley, Billy  
Higgins, Cynthia  
Jackson, Tony O.  
Johnson, Kevin  
Kennedy, Sammy M.  
Langham, Joseph G.  
Laster, Anthony J.  
Liles, Larry C.  
McDaniel, Madelina R.  
McGuire, Odell  
Moebes, Gilbert  
Mosley, Zachery D.  
Oliver, Larry  
Posey, Phillip R.  
Posey, Rickey  
Pride, Ne'Oshune

Pruitt, Bobby Alvin  
Pugh, Jeffrey Lee  
Reding, Brenda  
Ricks, Gary L.  
Risner, Tony  
South, Jacky L.  
Taylor, Lance Allan  
Thompson, Spencer Jr.  
Tittle, Ray  
Traffanstedt, Clay V.  
White, Brandon Lee  
White, Charles W.  
Winsted, Barry  
Woodruff, Reda Metcalf  
Walker, Jonah  
White, Gay



## COURSE EVALUATION

### TRAFFIC CONTROL THROUGH CONSTRUCTION WORK ZONES

Instructors: Bob Vecellio and John McCarthy

Course \_\_\_\_\_  
Location Tuscumbia Date May 13, 1997

Course Topic	<u>Emphasis Needed</u>	
	Less	More
ALDOT Policy & Procedure	14	19
Overview of Traffic Control Elements	15	13
MUTCD General Provisions	11	17
Traffic Control Needs, Problems & Consequences	12	21
TCP Elements	17	10
Traffic Control Devices	13	14
Flagging	16	13
Operations Workshop I - Devices	14	14
Traffic Control Plans	17	12
Operations Workshop II - Inspection and Accident Reporting	14	15
Installation, Maintenance & Removal	13	16
		Rating*
VISUAL AIDS		<u>7.8</u>
INSTRUCTION		<u>7.5</u>
OVERALL COURSE		<u>8.0</u>

\*Rating: Excellent = 10, Poor = 1

## **SUMMARY COURSE COMMENTS**

**Tuscumbia  
May 13, 1997**

### **Did you benefit from attending this course? Explain how.**

- Yes - I learned there was a lot more detailed criteria than the average employee recognizes.
- Yes - It was very informative. Enjoyed all the information, important material and explanation of traffic control devices.
- Yes - The first traffic control class I have attended.
- Yes - I did. Before taking this class I didn't have a proper understanding of roadway signs.
- Yes - I did, it was very helpful.
- Yes - Just knowing what to do now in setting up control on the projects.
- Yes - I understand traffic control better.
- Yes - I learned things I was unaware of previously.
- Yes - It was not a bad course.
- Yes - Became more familiar with traffic control items, installation, maintenance and removal.
- Yes - It was a good overview. Probably would help to get into groups and work on traffic control plans.
- Yes - What signs were done away with.
- Yes - I learned about new sign codes.
- Yes - I learned of discontinued signs.
- Yes - Since I work on a lot of resurfacing projects, it is important to know what traffic devices to use and where to use them.
- Yes - I benefitted because it showed how to set up traffic control work areas.
- Yes - It was a good course.

Yes - I learned much about traffic control through construction areas which is a very important subject.

Yes - Whenever you can increase your knowledge of your job and improve your awareness of it to help you perform your job better is beneficial.

Yes (3)

### **Other Comments**

It should not take three years to obtain information this important.

Good class.

The instructors acted in a very unprofessional manner by returning from lunch forty minutes late. It was very inconsiderate to make about fifty people waste that time away from their jobs. The situation was made worse when one of the instructors offered an apology and ended it with a smart remark about "teaching your own class." The class seemed hurried. Should be spread over two days to allow for in-depth study.

**TRAFFIC CONTROL THROUGH  
CONSTRUCTION WORK ZONES**

**Guntersville**

**May 14, 1997**

**57 Participants**

## COURSE EVALUATION

### TRAFFIC CONTROL THROUGH CONSTRUCTION WORK ZONES

Instructors: Bob Vecellio and John McCarthy

Course \_\_\_\_\_  
Location Guntersville Date May 14, 1997

Course Topic	<u>Emphasis Needed</u>	
	Less	More
ALDOT Policy & Procedure	6	13
Overview of Traffic Control Elements	11	7
MUTCD General Provisions	11	9
Traffic Control Needs, Problems & Consequences	9	15
TCP Elements	9	10
Traffic Control Devices	10	8
Flagging	10	7
Operations Workshop I - Devices	7	8
Traffic Control Plans	4	15
Operations Workshop II - Inspection and Accident Reporting	8	9
Installation, Maintenance & Removal	10	5
		Rating*
VISUAL AIDS		<u>8.2</u>
INSTRUCTION		<u>8.4</u>
OVERALL COURSE		<u>8.5</u>

\*Rating: Excellent = 10, Poor = 1

**List of Participants**  
**Guntersville Work Zone Course**  
**May 14, 1997**

Barrentine, Mark L.	Skaggs, Greg
Bates, Doug	Snider, John E.
Beasley, Don	Spencer, Darnell
Boman, David M.	Steele, Leon
Butler, William Sean	Stewart, Kelvin A.
Conley, Tiffani A.	Taheri, Bejan A.
Dahlke, Dan	Terry, James
Davis, Steve	Terry, Mark A.
Ellis, Ronnie N.	Terry, Reginald B.
Fagan, Barry	Thompson, James Ronnie
Fagan, Tracey Lynn	Thompson, Michael G.
Fuller, Angelia L.	Trimble, John C.
Garth, William L. Jr.	Warren, Ronnie
Graves, Casey D.	Wheeler, Eddie R.
Hand, David L.	Wilhelm, Russell
Hosch, Michael J.	Williams, Melissa P.
Jasper, Johnny Thomas	Wunch, Thomas L.
Jelks, Christopher A.	
Johnson, Angel	
King, Linda M.	
Kirkland, James S.	
Knop, Michael	
Lowery, Christine Y.	
Lucas, Daniel	
Matthews, Stephanie	
McAbee, Jimmy Jason	
McBride, Portia	
McDonald, Mark H.	
Miller, Billy C.	
Mitchell, James	
Mitchell, Sylvia	
Moore, Dwight	
Myrick, LeVon	
Nix, Mark A.	
Placek, Alan	
Phillips, T.E.	
Roberson, Douglas (Scott)	
Sanders, Richard	
Shepard, S. Mark	
Shryock, Ronald L.	

## **SUMMARY COURSE COMMENTS**

**Guntersville  
May 14, 1997**

### **Did you benefit from attending this course? Explain how.**

- Yes - I design traffic control plans; some policy and procedures I did not know. Course was very informative.
- Yes - I was introduced to new terms and ideas for setting up traffic control plans.
- Yes - It gave me a better insight to the proper procedures involved in traffic control plans and inspection.
- Yes - Good refresher.
- Yes - Some of the minor points were brought up in the class.
- Yes - Good overview of knowledge needed to inspect traffic control devices.
- Yes - As a designer, this information is very beneficial to me.
- Yes - Learned how to inspect traffic controls on a project and fill out the forms.
- Yes - I learned a lot about traffic control that I did not know. Really helpful because safety comes first.
- Yes - It made me eligible for traffic control inspection and gave me a better understanding of traffic control inspection.
- Yes - In this class I learned about the different types of TCP. I did not know a lot of these types of plans. Also I learned about some new signs that I haven't seen before.
- Yes - It was a very good course and was beneficial to me.
- Yes - I benefitted from attending the course by being updated on changes in the traffic control manual.
- Yes - As an inspector with ALDOT it is necessary to understand traffic control. I have learned a lot and with this material I now have the knowledge.

Yes - I learned about traffic control.

Yes - It made me more aware of traffic devices and flagger responsibility, along with help on the C-25 form and traffic accident report.

Yes - I learned more about traffic control and how devices are used.

Yes - Because I was certified in traffic safety.

Yes - I have become better aware of correct placement and inspection of traffic control devices.

Yes - This is the second class I have taken on traffic control. Being an assistant county engineer this is information that is very important to have when paving or building a bridge using federal money.

Yes - Learning about traffic measures and to prevent and help avoid accidents and confusion.

Yes - I have a better understanding of the importance of a well maintained traffic control plan, in order to maintain safety for the public and also for the workers.

Yes (7)

**Other comments:**

Instructors were very informed on the subject.

Good class but give more breaks so students can pay better attention.

The A.M. classes seemed slow. The P.M. classes seemed rushed.

The course was too long.

Need more courses.

This course is much too long, too many personal comments by the instructors.

Too much material to cover in one day.

Projects need to be able to enforce contractor's use of quality signs.

Need to get material for proper installation of traffic signals - positioning, height requirements, testing, etc.



It is unnecessary to read/review every warning sign. Teach how to use manual instead. Reading is not DOT problem, but not using available manuals seems to be the problem. John reading all handouts to group made the class unnecessarily long.

Some slides had information the instructor wanted us to see, but due to poor visibility, not enough shown on the slide, it was too hard to pick out pertinent points. On some points you should have a series of several slides to get a view of the work area. Could not understand John McCarthy when he was speaking. Slow down. Speak more clearly and get rid of the attitude. Spends too much time on closed lane speed limit signs.

Flagging slides need to be a film for a better understanding.

Slides were dark and hard to see.

**TRAFFIC CONTROL THROUGH  
CONSTRUCTION WORK ZONES**

**Alexander City**

**May 15, 1997**

**68 Participants**

**List of Participants**  
**Alexander City Work Zone Course**  
**May 15, 1997**

Abner, Eugene  
Anseman, Janice Michelle  
Babbs, Torris J.  
Barker, Alan D.  
Beck, R. Vance  
Blair, Terry L.  
Blankenship, Joseph C.  
Camp, Robert Fred Jr.  
Castleberry, Wayne  
Chapman, Jacoby D.  
Clark, Natalie C.  
Cook, David T.  
Cush, Ken  
Davis, Keith M.  
Dean, Christopher  
Driggers, Joe M.  
Faulk, Henry C.  
Foster, James Edward  
Frames, Kevin  
Frames, Willie G.  
Fuller, Sharron R.  
Garrett, Kenneth D.  
Gault, Leon  
Haynes, John S.  
Hightower, Earl  
Howard, Daryl  
Johnson, Baxter  
Jones, Terry W.  
Kelley, Kendall E.  
Kite, Larry W. Jr.  
Lauderdale, Sebron Jr.  
Lee, Joseph Q.  
Lindsey, Henry Clay Jr.  
Mallory, Lenox Mikecal  
Mathis, James W.  
McCoy, Diane  
McKenzie, Anthony  
McLeod, James H.  
Moore, Cathy

Morris, Huey L.  
Newman, Willie L.  
Payne, Keith M.  
Perry, Michael A.  
Pettus, William Clyde  
Ponder, Donald  
Porter, Rebekah M.  
Powe, Susan  
Powe, Winston J.  
Pritchett, Jimmy P.  
Queen, Ivey G.  
Ramsay, Lawrence R.  
Robbins, Shannon W.  
Robertson, Michael  
Shaw, Robert E.  
Smith, Daniel R.  
Smith, Larry W.  
Smith, Stanley  
Spencer, Alan Cornell  
Strong, Kenneth B.  
Thomas, Phillip  
Thrash, Johnny W.  
Voss, Robert E.  
Walker, Kevin  
Walls, Jerry W.  
Whetstone, Ezra Jr.  
Whittington, L. W.  
Williams, Tisha D.  
Wilson, Fred Jr.

# COURSE EVALUATION

## TRAFFIC CONTROL THROUGH CONSTRUCTION WORK ZONES

Instructors: Bob Vecellio and John McCarthy

Course \_\_\_\_\_  
 Location Alexander City Date May 15 1997

Course Topic	<u>Emphasis Needed</u>	
	Less	More
ALDOT Policy & Procedure	7	22
Overview of Traffic Control Elements	13	17
MUTCD General Provisions	11	19
Traffic Control Needs, Problems & Consequences	9	22
TCP Elements	11	19
Traffic Control Devices	8	21
Flagging	23	22
Operations Workshop I - Devices	11	16
Traffic Control Plans	5	25
Operations Workshop II - Inspection and Accident Reporting	10	19
Installation, Maintenance & Removal	9	22
		<u>Rating*</u>
VISUAL AIDS		<u>7.9</u>
INSTRUCTION		<u>7.9</u>
OVERALL COURSE		<u>8.0</u>

\*Rating: Excellent = 10, Poor = 1

## SUMMARY COURSE COMMENTS

Alexander City  
May 15, 1997

### **Did you benefit from attending this course? Explain how.**

- Yes - I benefitted from this course because I do most all accident reports from contractors and write letters for the inspector to the project engineer.
- Yes - It gave me information that I did not have.
- Yes - In the understanding of numbers, locations, meaning of signs and the importance of traffic control including the responsibility.
- Yes - I did. It was very informative and I have gotten a lot of understanding of why I need to take the necessary precautions in planning our job's traffic control. Also got the needed information of when I need to do my checks, what to look for and how often. I appreciate the time and dedication you took in the preparation of the class. The guidance and information you provided will be very essential in my further documentation of traffic control procedures. Thanks Bob and John.
- Yes - Awareness of traffic control techniques.
- Yes - I did benefit from this course by having a chance to go through the MUTCD manual and asking questions to traffic engineers. It will make inspections, installation and maintenance of traffic control run more smoothly. I am more familiar with the manual for unexpected situations on a project.
- Yes - Better overall view of traffic control.
- Yes - To make work zones safer.
- Yes - This was the first time that this class covered some of the sign procedures I knew and others I did not.
- Yes - Because I learned things I thought I knew but did not. I found out now is better for me and my coworkers and also the public.
- Yes - Good refresher course on old rules and updated on new procedures.

- Yes - I learned a lot of things I did not know. For example: R,W,G,A,B on the sign codes; nor did I realize the importance of over or under signing an area. Yes this class is helpful although it can be tiring at times.
- Yes - It was beneficial to get an overview of traffic control problems, new policies and products even though I had been exposed to TCP for several years.
- Yes - I feel the class will be very beneficial in the future for traffic control. I think since most of our construction projects are now in metric this class should also be taught in metric.
- Yes - Very informative.
- Yes - McCarthy made a good point about signs staying up when not being used. Those signs do need to come down or be covered, i.e. Opelika at Midway Plaza. However if you are going to teach people to contradict a professional engineer's design, then you have to teach/show them how to document and handle it. There are too many risks with TCP's and lawsuits, and your students need to know what is involved when you change a TCP. You as a P.E. do not need to give engineer assistants a false impression.
- Yes - More aware about what signs I need to use in my work.
- Yes - Some devices changed and were explained why, along with their proper usage.
- Yes - Expense accounts.
- Yes - It was a little longer than I realized. For some of the things that occur on job sites, I think we could have read the manuals and could have used more guidance on actual situations that we were going to be inspecting. Not installing or actually flagging.
- Yes - I benefitted most from slides and manuals.
- Yes - Basically the size of most signs and how to set up for a closed road and one lane roads. How to set up the barricades and their differences.
- Yes - This program was very beneficial. We need more classes like this so that we can keep up with this type training. Job well done.
- Yes - I was informed on new types of traffic control through the work zones.
- Yes (4)

**Other Comments:**

All ALDOT employees need to attend.

Do it again next year but shorten the hours.

More examples of actual TCP design, problems, etc.

Class is boring. Also needs better pictures.

This class was too long.

Need more time, maybe a two day class.

## **APPENDIX**

### **Example of Training Certificate**



# ALABAMA DEPARTMENT OF TRANSPORTATION

## *Auburn University Highway Research Center*


*This is to certify that*

**John Doe**

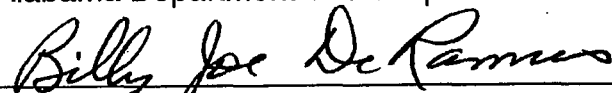
*has successfully completed 6.5 hours of training in*

## **Traffic Control through Construction Work Zones**

May 7, 1997

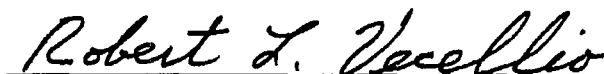


State Traffic Engineer  
Alabama Department of Transportation

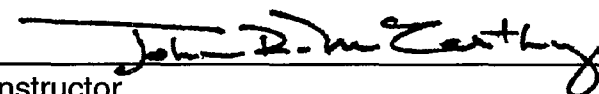


Assistant Traffic Operations Engineer  
Alabama Department of Transportation





Instructor  
Auburn University



Instructor  
Auburn University