**Virginia Department of Transportation**  
**Concrete Field Certification**

### First Day

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker/Role</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:30 am - 8:00 am</td>
<td>Registration</td>
<td></td>
</tr>
<tr>
<td>8:00 am - 10:30 am</td>
<td>Chapter 1 - Components of Concrete</td>
<td>Don French</td>
</tr>
<tr>
<td>10:30 am - 12:15 pm</td>
<td>Chapter 7 - Protection and Repair of Concrete Structures</td>
<td>Michael Sprinkel</td>
</tr>
<tr>
<td>12:15 pm - 1:15 pm</td>
<td>Lunch</td>
<td></td>
</tr>
<tr>
<td>1:15 pm - 2:00 pm</td>
<td>Chapter 8 - Responsibilities of Contractor’s Technician and VDOT Inspector</td>
<td>Bill Collins, CQIP Personnel</td>
</tr>
<tr>
<td>2:00 pm - 4:00 pm</td>
<td>Chapter 9 - Field Inspection and Control of Concrete</td>
<td>Bill Collins, CQIP Personnel</td>
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### Second Day

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker/Role</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 am - 9:00 am</td>
<td>Chapter 10 - Automated Data Processing</td>
<td>Jeff Haddon, Scott Manning, Farrah Pinckney-Semere, VDOT Staff</td>
</tr>
<tr>
<td>9:00 am - 9:15 am</td>
<td>Break</td>
<td></td>
</tr>
<tr>
<td>9:15 am - 11:15 am</td>
<td>Test</td>
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**Test:** Open Book: 35 multiple choice, TL-13 and TL-28A

**Grading:** Must score 70% or better to pass

**Exam Results:** Can be found on VDOTU at https://virtualcampus.vdot.virginia.gov/external. If you do not know your login and password, DO NOT create a new account, call (804)328-3158 for login information.

**To be certified:** Students must pass the written exam and obtain ACI Field Level I certification by December 31, 2014. ACI website: www.vrmca.com Contact number: (434)977-3716. Proof of ACI certification should be faxed to (804)328-3136 Attn: Training Section or mailed to the VDOT Materials Certification Schools, 1401 E. Broad Street, Richmond, VA 23219. If you have any questions call (804)328-3158.

2014 v1.0
Virginia Department of Transportation
Concrete Plant Certification

First Day

7:30 am - 8:00 am  Registration
8:00 am - 10:00 am  Chapter 1 – Components of Concrete  Bob Long
10:00 am – 11:30 am  Chapter 2 - Sieve Analysis, Fineness Modulus  Scott Manning
11:30 am - 12:30 pm  Lunch
12:30 pm - 5:00 pm  Chapter 3 - ACI Concrete Mix Design
and Adjustments  Scott Manning

Second Day

8:00 am - 9:00 am  Chapter 4 - Moisture Content and
Batch Weight Calculations  Larry Lundy
9:00 am – 9:30 am  Chapter 5 – Inspection of Plant and
Equipment  Larry Lundy
9:30 am – 10:00 am  Chapter 6 - Responsibilities of Producer
and VDOT Materials Technician  Larry Lundy
10:00 am - 11:30 am  Chapter 10 - Automated Data Processing  Scott Manning
11:30 am - 12:30 pm  Lunch
12:30 pm - 3:30 pm  Exam

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Test:  Open Book: 25 multiple choice
Proficiency: 6 Math problems - given on same day as test
Grading:  Must score a 70% or better on test and proficiency to pass

Exam Results: Exam results can be found on VDOTU. Non-VDOT personnel can find
their results at the following website: https://virtualcampus.vdot.virginia.gov/external.
If you do not know your login and password, DO NOT create a new account, call (804)328-3158 for login information and any questions.
Prepared by: The Virginia Department of Transportation, Materials Division

This manual has been prepared as a practical guide for VDOT Technicians, Inspectors and Contractors in the program area. The information included in this manual is generally compatible with current VDOT Specifications and instructions; however it should not be considered a source book for specifications. For Specifications, consult the current or applicable VDOT Road and Bridge Specification Book. This manual should be used as a guide and a reference to supplement the Specification and the reader’s knowledge.
The writers would like to express their appreciation to the Portland Cement Association for their permission to use quotations, graphs and illustrations from the current edition of “Design and Control of Concrete Mixtures”. The writers are also grateful to the following companies and organizations for permission to use their illustrations and information:

American Concrete Institute
American Concrete Pavement Association
Construction Machinery Company
Custom Concrete Company
English Construction Company
Jaeger Machine Company
Massey Construction Company
Master Builders Company
Rex Chainbelt, Inc.
Virginia Ready Mix Association

The writers express their gratitude to all personnel of the Department who assisted in the preparation of this manual.
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