



# Performance Examination - Aggregate

## Standard Method of Test for Reducing Samples of Aggregate to Testing Size (AASHTO R 76-16) [ASTM C702 / C702M-18]

Candidate Name: \_\_\_\_\_ NICET ID: \_\_\_\_\_

| Apparatus                                                                                                                                             | Trial<br>1 | Trial<br>2 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------|
| <b>Mechanical Splitter (Method A)</b>                                                                                                                 |            |            |
| Sample splitter with an even number of chutes, not less than 8 for coarse aggregate or 12 for fine aggregate with equal width chutes with receptacles |            |            |
| For coarse aggregate and mixed aggregate, chutes 50% wider than max size particle                                                                     |            |            |
| For dry fine aggregate, chutes 12.5 to 20 mm (½ to ¾ in.) in width                                                                                    |            |            |
| Hopper or straight-edged pan with a width less than an overall assembly of chutes                                                                     |            |            |
| <b>Method B</b>                                                                                                                                       |            |            |
| Straight-edged scoop, shovel, trowel or canvas blanket approximately 2 by 2.5 m (6 by 8ft)                                                            |            |            |
| <b>Method C</b>                                                                                                                                       |            |            |
| Straight-edged scoop, shovel, or trowel, small scoop or spoon on a hard, clean surface                                                                |            |            |
| Procedures                                                                                                                                            | Trial<br>1 | Trial<br>2 |
| <b>Method A – Mechanical Splitter</b>                                                                                                                 |            |            |
| 1. Distribute uniformly from edge to edge                                                                                                             |            |            |
| 2. Free flowing - reintroduce until test size is obtained                                                                                             |            |            |
| <b>Method B - Quartering</b>                                                                                                                          |            |            |
| 1. Place sample on hard, clean, level surface or blanket                                                                                              |            |            |
| 2. Turn the sample over three times with shovel or lifting blanket corners                                                                            |            |            |
| 3. Flatten pile at the apex                                                                                                                           |            |            |
| 4. Divide into equal quarters                                                                                                                         |            |            |
| 5. Remove diagonally opposite quarters including fines                                                                                                |            |            |
| <b>Method C – Miniature Stockpile (Damp Fine Aggregate Only)</b>                                                                                      |            |            |
| 1. Place sample on hard, clean, level surface and turn sample over three times                                                                        |            |            |
| 2. Form conical pile, obtain five increments randomly from the stockpile                                                                              |            |            |

First Attempt: Pass: \_\_\_\_\_ Fail: \_\_\_\_\_ Second Attempt: Pass: \_\_\_\_\_ Fail: \_\_\_\_\_

Comments:

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Examiner Name: \_\_\_\_\_ Examiner Signature: \_\_\_\_\_ Date: \_\_\_\_\_