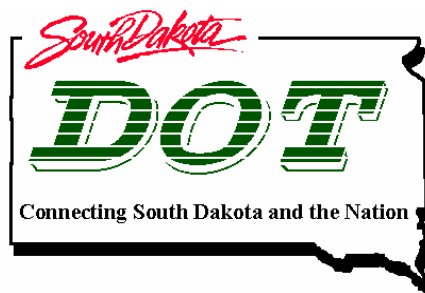


SOUTH DAKOTA
DEPARTMENT OF TRANSPORTATION



MATERIALS TESTING & INSPECTION
CERTIFICATION PROGRAM
MANUAL

Revised September 2009

SOUTH DAKOTA DEPARTMENT OF TRANSPORTATION

MATERIAL TESTING & INSPECTION
 CERTIFICATION PROGRAM MANUAL

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Appendix 3 - SDDOT Asphalt Concrete QC/QA Certification Program

LIST OF ABBREVIATIONS

AASHTO	American Association of State Highway and Transportation Officials
ACI	American Concrete Institute
AMRL	AASHTO Materials Reference Laboratory
ASTM	American Society for Testing and Materials
CCRL	Cement and Concrete Reference Laboratory
CFR	Code of Federal Regulations
FHWA	Federal Highway Administration
IA	Independent Assurance
NHS	National Highway System
NIST	National Institute of Standards and Technology
QC	Quality Control
QA	Quality Assurance
QC/QA	Quality Control and Quality Assurance
SDDOT	South Dakota Department of Transportation
SDBOP	South Dakota Bureau of Personnel

REFERENCES

SDDOT Standard Specifications for Roads and Bridges, current edition

SDDOT Materials Manual, current edition

GLOSSARY OF TERMS

AASHTO Accredited Laboratories - Laboratories that satisfy the quality system requirements specified in AASHTO Practice R 18 and received an on site assessment from AMRL and/or CCRL for which test method accreditation is being sought.

Abuse - An intentional deviation from approved procedures.

Acceptance Testing - Testing that is done for the acceptance of a product. These tests are generally run to find if the product falls within a minimum or maximum specified range.

Certified Individual - An individual, who has successfully demonstrated through passing the required written and/or performance exams, with the knowledge and skills required to properly sample and test material or provide inspection of construction activities.

Certification Program - The process in-place that provides the requirements for those seeking certification and administration of the program.

Course Exam - An exam taken at the end of an approved training course to gain Certification.

Direct Supervision:

- a.) Materials Testing - A non-certified individual may perform tests or portions of tests only under direct observation of a Certified Technician until such time the non-certified technician demonstrates they can consistently perform the test or portion thereof in accordance with the outlined procedures. From that point on, the non-certified individual can perform the test or portion thereof whether or not a Certified Technician is physically present at the test site. The Certified Technician is however required to spend time at the project/laboratory on a daily basis. The Certified Technician assumes all responsibility for the accuracy of the test data and signifies so by placing their initials on the worksheet as the checker. For Asphalt QC/QA projects, the Contractor & DOT each shall have a minimum of one certified person in Asphalt Concrete Aggregate Testing and Asphalt Concrete Hot Mix Testing conducting the QC testing on the project whenever the plant is supplying asphalt concrete to the roadway.
- b.) Inspection - A non-certified individual may perform inspection of a phase of work only under the direct observation of a Certified Technician until such time the non-certified individual demonstrates a thorough understanding and knowledge of the requirements and procedures for that phase of work. From that point on, the non-certified individual may inspect that phase of work whether or not a Certified Technician is physically present on the project. The Certified Technician shall however spend time on the project on a daily basis. The Certified Technician assumes all responsibility for the accuracy of the documentation provided and shall place his/her initials on the document to verify review and approval. For Asphalt QC/QA projects, the Contractor & DOT each shall have a minimum of one certified person in Asphalt Concrete Roadway Inspection on the project whenever asphalt pavement is being placed.

Dispute Resolution – A process of resolving disputes between parties.

Ethical Work - All work shall be accomplished honestly in a professional manner in accordance with the plans, specifications, contract, materials manual, or any other pertinent requirements. It shall be considered unprofessional and inconsistent with proper conduct and contrary to the public interest:

- a) To act for his/her client or for his/her employer other than as a faithful agent or trustee.
- b) To accept remuneration for services rendered other than from his/her client or his/her employer.
- c) To attempt to injure (falsely or maliciously) the professional reputation of another individual or business.
- d) To exert undue influence or to offer, solicit, or accept compensation for the purpose of affecting negotiations of a contract or contract item.
- e) To act in any manner derogatory to honor, integrity, and dignity.

Independent Assurance (IA) Testing - Is an unbiased and independent evaluation of all of the sampling and testing procedures used in the acceptance program. The results of the IA tests are used to ensure that correct sampling and testing procedures are being used and that the testing equipment is properly calibrated. The IA tests results shall not be used as a basis of material acceptance.

Inspection - The process of observing, measuring, examining, testing, gauging, or otherwise evaluating materials, products, services, testing activities, and equipment to determine their acceptability in meeting specification requirements.

Misconduct - An intentional wrongdoing or deliberate violation of the requirements of the certification program.

Negligence - A repeated unintentional deviation from approved procedures, which may or may not cause erroneous results.

Permanent Employee - A full time individual employed by a company or organization, who normally works 40 hours per week 52 weeks per year for the same company or organization.

Performance Exam - An exam taken by an individual to show that he/she has the knowledge and ability to perform the specified test.

Proficiency Sample - A standardized sample given to multiple laboratories to evaluate the performance of the laboratories and those performing the tests.

Provisional Examination - An examination opportunity made available upon approval by the Chairman of the Certification Advisory Committee for QC/QA Asphalt Projects or by the Oversight Committee for the Materials Testing & Inspection Program to provisionally certify an individual so they may provide inspection or testing for one construction season. This process is permitted only when there is a shortage of certified individuals as a result of a locally heavy workload in combination with unforeseen circumstances. This individual must pass the written examination for the area of work in which they are going to perform. Following successful completion of the written examination, the provisional status individual must work under direct

supervision of a certified individual for a period of not less than 2 days to ascertain the individual knows the applicable project requirements and/or testing procedures.

Quality - Consistently conforming to mutually agreed upon requirements.

Quality Assurance - All those planned and systematic activities necessary to provide adequate confidence that a product or service will satisfy given requirements for quality. In the laboratory, quality assurance should provide adequate confidence in each test result reported by the laboratory.

Quality Control - The sum of total activities performed by the seller (producer, manufacturer, and/or contractor) to make sure that a product meets contract specification requirements. Within the context of highway construction this includes materials handling and construction procedures, calibration and maintenance of equipment, production process control, and any sampling, testing, and inspection that is done for these purposes.

Recertification Exam - An exam taken by an individual to obtain certification in those areas for another specified timeframe.

Reciprocity - When the Certification is granted to an individual based on other training, licenses, etc.

Re-test Exam - A different exam, other than the one that was previously failed, given to an individual to obtain certification.

Test Out - The ability of an experienced individual to successfully pass a recertification exam.

SOUTH DAKOTA DEPARTMENT OF TRANSPORTATION

MATERIALS TESTING & INSPECTION
CERTIFICATION PROGRAM MANUAL

I. Objective:

The Federal Highway Administration (per 23 CFR 637 Subpart B) requires that all individuals performing acceptance testing or independent assurance testing shall be certified and all testing equipment be calibrated at a specified frequency for all work on the National Highway System. The intent is to continually improve the quality of our highway system. With the adoption of quality control/quality assurance specifications, many more individuals are testing and inspecting, which requires training and good testing equipment to provide consistency and repeatability of results. The intent of the program is to assure that the quality of the inspection, testing, and testing equipment is uniform and consistent in providing quality results.

This Certification Program does not apply to the SDDOT Central laboratory. The Central Laboratory shall meet the requirements of CFR 637.209(a)(2).

All activities must be conducted in accordance with this manual.

A. There are three major parts to the program:

1. Calibration of Testing Equipment.
2. Material Testing Certification of Individuals.
3. Inspection Certification of Individuals.

B. The Program applies to highway construction on all highway systems plus all informal/maintenance projects which require inspection as determined by the Region Engineer or Region Materials Engineer.

C. Any individual, who is performing acceptance or independent assurance testing of material, shall be certified.

D. Any individual, who is performing acceptance inspection of contract work in the areas designated by this program, shall be certified.

E. Overall Program Responsibility: The SDDOT Materials & Surfacing Program has the overall responsibility to administer this program. The duties and responsibilities of those individuals in the Materials & Surfacing Program to meet the administrative requirements shall be as outlined in this document.

F. The current edition of the SDDOT Materials Manual, Standard Specifications and Special Provisions shall be used as the source for the following:

1. Minimum Acceptance, Quality Control and Quality Assurance Testing Frequencies.
2. Minimum Independent Assurance Testing Frequencies.

3. Sampling and Testing Procedures.
 4. Procedures for handling failing test results.
 5. Procedures for the identification, conditioning, storage, retention, and disposal of test samples.
- II. Testing Equipment: All testing equipment shall be calibrated to assure uniformity in the testing equipment and to provide more uniform test results. The Independent Assurance testing will be used to monitor uniformity of the testing equipment and procedures. Each entity is responsible for the maintenance and repairs of their own testing equipment.
- A. Requirements: All testing equipment identified by the Materials & Surfacing Program shall:
1. Be calibrated at the required Frequency (Appendix 1).
 2. Be calibrated according to the Equipment Calibration Procedures (Appendix 2), (Example Figure 1).
 3. The equipment calibration shall be recorded on the Equipment Calibration Records (Appendix 2), (Example Figure 2). Where large numbers of a particular type of equipment exist, it will be permissible to list as many items on one record document as it will accommodate provided all required documentation, measurements, and any other required information is shown for each equipment item.
 4. Equipment Calibration Records shall be retained for a period of three years.
 5. No equipment shall be used for testing if it does not meet the calibration requirements. This may require corrective work or disposing of the non-conforming equipment.
- B. Responsibilities:
1. Materials & Surfacing Program:
 - a) Develop and furnish Equipment Calibration Frequencies, Procedures, & Records.
 2. Region Materials:
 - a) Calibrate SDDOT Region & Area equipment.
 - b) Maintain equipment inventory.
 - c) Maintain equipment calibration records.
 3. Area Office:
 - a) Insure Area, Contractor, Consultant, or other's equipment is calibrated prior to use. This will require submitting Area Office equipment to Region Materials for calibration.
 - b) Review Contractor, Consultant, or other entities' records. The Area Office will need to insure that the consultant, contractor, or other entity's equipment calibration records are available for review on the project site. The Area Office is not required to check the equipment calibration, unless there appears to be a need. IA testing will be used to monitor accuracy of equipment

calibration and uniformity of testing procedures. The Area has the authority to check equipment at any time for any reason.

4. Contractor, Consultant, or other entities:
 - a) Calibrate their equipment prior to use on project.
 - b) Maintain their equipment inventory.
 - c) Maintain their equipment calibration records.
 - d) Have a copy of current equipment calibration records available on project site.
 - e) Cooperate in the inspection conducted by SDDOT of their facilities, equipment, and/or records.
5. Individual:
 - a) Each individual shall be responsible for keeping well-maintained and clean equipment and workspace.
 - b) Each individual shall assure that their equipment has been calibrated and is functioning as intended.

III. Individual Certification: Any individual, who is performing Acceptance, Quality Control, Quality Assurance or Independent Assurance testing of materials and/or acceptance inspection in the areas designated by this program shall be certified.

A. Certification will be required for all personnel who will be performing Materials Testing or Project Inspection in the following areas:

1. Materials Testing:
 - a) Soils - SD 103, 104, 105, 106, 108, 110 & 114.
 - b) Aggregate - SD 201, 202, 203, 206, 207, 208, 211, 213, 214, & 219.
 - c) Asphalt - SD 108, 201, 202, 206, 207, 208, 211, 213, 214, 301, 312, 313, 314, 315, 316, 317 & 502, SD T 176, T 304, T 312 & D 4791.
 - d) Fresh Concrete - SD 402, 403, 404, 405, 408 & 411
2. Project Inspection:
 - a) Earthwork.
 - b) Structures.
 - c) Concrete Paving.
 - d) Concrete Plants.
 - e) Asphalt
 - f) Erosion & Sediment Control

B. Materials Testing Certification:**1. Requirements for Permanent Personnel:****a) Initial certification:**

- 1) **Soils or Aggregate:** The individual must successfully complete each segment of the Department's Soils and Aggregate Testing Course.

Asphalt: Individual must follow the procedures for certification contained in Appendix 3 of this document. The individual must attend the training course and pass the required exams prior to sampling and testing materials associated with asphalt concrete construction.

Fresh Concrete: Individual must be certified as an ACI Concrete Field Testing Technician – Grade I prior to sampling and testing concrete. SDDOT personnel are required to attend the SDDOT+ presentation on DOT procedures. Testing out of the ACI Certification Course will not be allowed.

- 2) Permanent SDDOT employees, who will be sampling and testing materials for acceptance, are expected to become certified in at least one material testing area within one year of their date of hire. Until an individual is certified, they shall function in accordance with the parameters established for temporary or seasonal personnel.
- 3) All of the Materials Testing certifications are valid for 4 years (except the ACI Certification which is valid for 5 years), after which time the individual must become recertified before the expiration date of the current certification.

b) Recertification:

- 1) **Soils or Aggregate:** Recertification must be accomplished by successfully completing the course with Performance Exams or successfully completing the Re-certification process with Performance Exams on an alternating basis every 4 years and before the expiration date of the current certification. Re-certification process can be scheduled through the Region Materials Engineers Office.

Participation in conducting any of the Department sponsored Certification courses as a trainer, will fulfill the requirement for certification or recertification for that course for a period not to exceed four years.

- 2) Asphalt: Individual must follow the procedures for recertification contained in Appendix 3 of this document.
 - 3) Fresh Concrete: Individuals certified by ACI must follow the current ACI procedures to become recertified.
2. Requirements for Temporary & Seasonal Personnel:
- a) Temporary and seasonal personnel who are utilized to perform materials testing duties shall obtain a copy of the test procedure(s) and become familiar with them.
 - b) Shall observe a certified technician perform the test procedure.
 - c) Shall perform the test procedure until proficiency is achieved.
 - d) Shall demonstrate the test procedure to a certified technician. The certified technician shall use the Performance Checklist for the test being demonstrated to ascertain all steps are performed correctly. This document shall be retained as verification of successful demonstration of the procedure.
 - e) Shall have a copy of the applicable test procedure available during the demonstration testing and while testing material on the project.
 - f) Shall work on the same project under direct supervision of an individual certified in that area of testing.
 - g) A copy of the Performance Checklist for the test(s) in which a Temporary or Seasonal individual has demonstrated proficiency and the Training & Evaluation Record document for all non-DOT personnel used on a project shall be available for review in the Project File at the Area Office and in the laboratory on the project. These records for Temporary or Seasonal DOT Personnel shall be available for review at the Area office.
 - h) Individuals must be certified as an ACI Concrete Field Testing Technician – Grade I if testing Fresh Concrete.

C. Inspection Certification:

1. Requirements for Permanent Personnel:
 - a) Initial Certification:
 - 1) Asphalt Inspections: Individual must follow the procedures for certification contained in Appendix 3 of this document. The individual must attend the training course and pass the required exams prior to inspection of asphalt concrete.
 - 2) All Other Inspection Areas: Permanent SDDOT employees, who will be performing acceptance inspection, are expected to become certified in at least one inspection area within one year of their date of hire. Until they become certified, they shall function in accordance with the parameters established for temporary or seasonal personnel.

- 3) Certifications are valid for four years, after which the individual must become recertified before the expiration date of the current certification.
- b) Recertification:
 - 1) Asphalt Inspections: Individual must follow the procedures for recertification contained in Appendix 3 of this document.
 - 2) All Other Inspection Areas: Recertification must be accomplished by completing the re-certification process or successfully completing the course on an alternating basis every 4 years and before the expiration date of the current certification. Contractors and Consultants need to contact the Region Materials Engineers office nearest their area to sign up for re-certification courses.
- 2. Requirements for Temporary & Seasonal Personnel:
 - a) An individual's qualifications (training, education, and experience) will be considered in determining their ability to provide proper inspection in a particular area.
 - b) The individual must work on the same project under direct supervision of an inspector certified in that inspection area.
 - c) The certified inspector will determine whether the temporary or seasonal person is qualified for a particular area of inspection.
 - d) The individual shall review the applicable Training Manual and have it available for use on the project.
 - e) Temporary or seasonal personnel will not be required to take any of the inspection certification courses.
 - f) A copy of the Training & Evaluation Record document showing the area(s) in which a Temporary or Seasonal individual has demonstrated proficiency for inspection for non-DOT personnel used on a project shall be available for review in the Project File at the Area Office and on the project. These records for Temporary or Seasonal DOT Personnel shall be available for review at the Area Office.

D. Responsibilities - Material Testing:

- 1. Materials & Surfacing Program shall:
 - a) Maintain a list of Certified Individuals.
 - 1) Retain records (exams) for three years.
 - 2) Create and maintain a current database of all certification records.
 - 3) Provide a letter of notification to all individuals who fail to achieve a passing score. (A copy of this letter will be provided to the Area Engineer and the Region Materials

Engineer for DOT employees or to the Employer and Region Materials Engineer if the individual is not a DOT Employee.)

- 4) Provide each individual a card at the beginning of the construction season indicating the areas in which they are certified and the expiration date of each certification.
 - 5) At the beginning of each construction season, provide the Operations and Area Engineers with a tabulation of the personnel in their respective Regions/Areas that are certified, along with the expiration dates for those certifications.
 - 6) Distinguish between the types of exam given to the individual (re-test, re-certification, provisional, or course exam) for each certification area.
2. Region Materials
- a) Monitor certified individual's test procedures and comparison results through Independent Assurance testing.
 - b) Verify temporary and seasonal personnel test procedures and comparison results through Independent Assurance testing.
 - c) Administer and grade the written and performance re-certification and re-test exams for Soils & Aggregate Testing and applicable QC/QA levels to Area Office personnel, Contractors, Consultants, and other entities.
 - d) Notify Area Office, Consultant, Contractor, or other entity of an individual's substandard test procedures or comparison results.
 - e) Insure all necessary equipment calibration records are complete and on file.
3. Area Office
- a) Insure projects are staffed with properly certified Area personnel and verify Contractor, Consultant, or other Entity personnel are certified in the area in which they are working.
 - b) Responsible for sending their individuals to the appropriate training.
 - c) Qualify SDDOT temporary and seasonal employees annually.
 - d) Maintain documentation of seasonal qualifications on *Training and Evaluation Record* (Figure 3).
 - e) Insure that Certified Personnel are meeting the supervision requirements for temporary or seasonal personnel.
 - f) Take appropriate action when notified of an individual's substandard test procedure or comparison results.
4. Contractors, Consultants & Other Entities
- a) Responsible for sending their individuals to the appropriate training.
 - b) Insure properly certified individuals staff the project.
 - c) Qualify their own temporary and seasonal employees annually.

- d) Maintain documentation on seasonal qualifications on *Training and Evaluation Record* (Figure 3).
- e) Take appropriate action when notified of an individual's substandard test procedures or comparison results.
- f) Have a copy of the Equipment Calibration Records for all Testing equipment used on the project available for review in the Project Files at the Area Office and also in the testing laboratory on the project.

5. Certified Individual

- a) Insure he/she works only in the areas for which he/she has been certified.
- b) Insure that certifications are kept current.
- c) Insure the material tests are performed in accordance with the material test procedures and material test results are reported to the required precision.
- d) Insure the equipment has been calibrated and properly maintained.
- e) Insure that test samples are retained for the specified period of time. When a time period is not specified, passing samples shall be disposed of in a safe and expeditious manner after the testing is complete and the test results have been approved. Insure that applicable State or Federal guidelines or regulations for the disposal of materials are strictly adhered to.
- f) Insure work is accomplished in an ethical manner.
- g) Each Certified Individual will be allowed to supervise a maximum of 2 temporary or seasonal employees in an area in which they are certified.
- h) The Certified Individual will be responsible for overseeing the temporary or seasonal employee's work and initial any reports.
- i) Take corrective action when notified of substandard testing procedures or comparison results.

E. Responsibilities - Inspection

1. SDDOT Central Office personnel will:

- a) Assist in the development of the training material and/or provide training for the inspection and testing classes.
- b) Insure exams are graded by the Lead Instructors.
- c) Materials and Surfacing Program will maintain a List of Certified Individuals in each of the inspection areas.
 - 1) Retain records (exams) for three years.
 - 2) Create and maintain a current database of all certification records.
 - 3) Provide a letter of notification to all individuals who fail to achieve a passing score. (A copy of this letter will be provided to the Area Engineer and the Region Materials Engineer for DOT employees or to the Employer and Region Materials Engineer if the individual is not a DOT Employee.)

- 4) Provide each individual a card at the beginning of the construction season indicating the areas in which they are certified and the expiration date of each certification.
 - 5) At the beginning of each construction season, provide the Operations and Area Engineers with a tabulation of the personnel in their respective Regions/Areas that are certified along with the expiration dates for those certifications.
2. Region Materials
 - a) Administer and grade the re-certification and re-test exams for the various inspection areas to Area Office personnel, Contractors, Consultants, and other entities.
 3. Area Office
 - a) Insure projects are staffed with properly certified Area personnel and verify Contractor, Contractor, Consultant & Other Entities' personnel are certified in the inspection area in which they are working.
 - b) Responsible for sending their individuals to the appropriate training.
 - c) Verify SDDOT temporary and seasonal employee inspection proficiency.
 - d) Maintain documentation of seasonal qualifications on *Training and Evaluation Record* (Figure 3).
 - e) Insure that Certified Personnel are meeting the supervision requirements for temporary or seasonal personnel.
 - f) Take appropriate action when notified of an individual's substandard work.
 4. Contractors, Consultants & Other Entities
 - a) Responsible for sending their individuals to the appropriate training.
 - b) Insure properly certified individuals staff the project.
 - c) Verify temporary and seasonal employee inspection proficiency.
 - d) Maintain documentation of seasonal qualifications on *Training and Evaluation Record* (Figure 3).
 - e) Take appropriate action when notified of an individual's substandard work.
 5. Certified Individual
 - a) Insure he/she works only in areas for which he/she has been certified.
 - b) Insure that certifications are kept current.
 - c) Insure inspections are conducted to verify compliance with plans and specifications and that proper documentation is made.
 - d) Insure work is accomplished in an ethical manner and non-specification work is properly documented and reported to the Area Engineer.

- e) Qualify temporary & seasonal employees based on education, experience, and/or successful completion of exam.
- f) Each Certified Inspector will be allowed to directly supervise a maximum of 2 temporary or seasonal employees in an area in which they are certified.
- g) The Certified Inspector will be responsible for overseeing the temporary or seasonal employee's work and shall initial any reports.
- h) Take corrective action when notified of substandard work.

F. Conflict of Interest:

In order to avoid a conflict of interest, no individual or laboratory shall perform more than one of the following types of testing on the same project:

- Acceptance Testing
- Quality Control Testing
- Quality Assurance Testing
- Independent Assurance Testing
- Dispute Resolution Testing

Note: The Region Materials Laboratory may perform Dispute Resolution Testing on QC/QA projects.

G. Dispute Resolution Testing: Dispute resolution testing of materials shall be accomplished by the SDDOT Central Testing Laboratory, AASHTO Accredited Laboratories, Region Materials Laboratory or other SDDOT Approved Accredited Laboratories. The dispute resolution systems maybe administered entirely within the SDDOT.

H. Suspension/Revocation of Certification: Any suspension or revocation of an individual's certification shall be administered by the Oversight Committee. A meeting of the Oversight Committee may be called at any time by the Chair of the committee or by a written request to the Chair by at least three committee members. A majority of the members shall be present for the transaction of official business.

- 1. Oversight Committee members are:
 - a) Chief Materials & Surfacing Engineer - Chair.
 - b) Director of Operations.
 - c) State Highway Engineer.
 - d) Certification/Accreditation Engineer.
 - e) Pavement and Materials Engineer, FHWA.
 - f) One Region Operations Engineer rotated on a 2 year basis.
 - g) One Area Engineer rotated on a 2 year basis.
 - h) Consultant Engineering Firm representative - appointed by the Chair serving a 2 year term.
 - i) Region Materials Engineers

2. Oversight Committee responsibilities:
 - a) The committee at minimum will meet once a year to review and update the Materials Testing & Inspection Certification Program Manual and applicable policies.
 - b) Investigate and resolve (majority vote) written allegations of misconduct. Allegations of misconduct shall be made to the Chair of the Oversight Committee in writing. The allegation shall contain the name, phone number, address, and signature of the individual(s) making the allegation. The allegations will be investigated by the Oversight Committee. If warranted, the accused and the individual(s) making the allegation will be given the opportunity to appear before the Oversight Committee to resolve the allegation. The Chair of the Oversight Committee will provide written notification to all of the involved parties of the decision of the Oversight Committee. Any warranted penalties may be imposed as determined by the Oversight Committee.

For just cause the Oversight Committee may impose suspension or revocation of an individual's certification at any time. The reasons that an individual will be subject to revocation or suspension of their certification are falsification of records/tests/reports, negligence, or abuse of their responsibilities. The Oversight Committee may also suspend or revoke an individual's certification for other reasons of just cause, which may or may not be specifically defined.

Negligence is defined as repeated unintentional deviations from approved procedures, which may or may not cause erroneous results. A reoccurring finding of negligence will result in a letter from the Oversight Committee to the Employer directing them to write a letter of reprimand to the individual. A continuing finding will result in a thirty (30) day suspension of the individual's certification. Any subsequent finding will be treated as abuse.

Abuse is defined as intentional deviations from approved procedures. (Examples of abuse include, but are not limited to: the falsification of test results or records, submittal of false information on certification applications, and/or unwillingness to follow prescribed test procedures.) The first instance of abuse shall result in a one (1) year suspension of an individual's certification. Any subsequent finding of abuse shall result in the permanent revocation of the individual's certification.

Any findings of abuse or negligence warranting the revocation or suspension of an individual's certification will result in the revocation or suspension of all certifications held by that individual in the various Material Testing or Inspection Areas. When the suspended individual is reinstated and prior to

performing work, the individual will be required to pass the written and/or performance re-certification exams, as applicable, and the individual's recertification expiration date(s) will be that expiration date(s) held prior to the suspension.

Falsification of records/tests/reports: Any person who knowingly makes any false statements of records/tests/reports as to the quantity, quality, or cost of the material used on, or the work performed on any federal-aid project is also subject to be fined or imprisoned in accordance with Title 18, United States Code Section 1020.

- c) Investigation and resolution (majority vote) of any appeals of exam scores due to ambiguous question(s) or problem(s) with the training course exam(s). For just cause the Oversight Committee may adjust an exam score of an individual, if investigation and resolution of the written request warrants such action. The individual must provide a written appeal with the justification(s) why the question(s) or problem(s) was/were ambiguous within 60 calendar days from the date of the exam.
- d) The Oversight Committee will notify the employer of all actions taken.
- e) Other duties as required to successfully implement and continue the Certification Program.

I. Reciprocity:

- 1. Reciprocity may be allowed for soil and aggregate material testing. The individual's qualifications will be reviewed by the Materials and Surfacing Program to see if they meet SDDOT standards of material testing. Reciprocity will not be granted for inspection certification or asphalt and concrete material testing certification.
- 2. Reciprocity may also be granted for erosion & sediment control/storm water management when the individual provides documentation he/she is certified in one or more of the following.
 - a) Certified Professional in Erosion and Sediment Control (CPESC)
 - b) Certified Professional in Storm Water Quality (CPSWQ)
 - c) Certified Erosion, Sediment and Storm Water Inspector (CESSWI)
 - d) Certified Storm Water Compliance Inspector (CSWCI)
 - e) Certified Preparer of SWPPPs (CPSWPPP)

Note: Individual certifications will be verified by a representative from SDDOT Office of Project Development, Environmental Program.

IV. Exams

A. Types of Exams:

1. Written Exams:

- a) Types of written exams:
 - 1) Course Exam.
 - 2) Re-test Exam.
 - 3) Re-certification Exam.
 - 4) Provisional Exam.
- b) Exams will be open book unless precluded by the approved testing entity.
- c) A minimum overall score of 70% on the written exam shall be obtained to successfully pass the written exam or as deemed passing by the approval testing entity.
- d) If the written exam is failed, the individual will be given one more opportunity to pass another written exam. The re-test exams will be scheduled at the convenience of the Region Materials Engineer and within 30 calendar days of the original written exam. *NOTE: The Region Materials Engineer cannot administer a re-test for the ACI course. This re-test must be rescheduled with a duly authorized ACI representative.* If a re-test is failed, the individual will not be allowed to provide inspection, acceptance testing, or independent assurance testing for that certifiable area until the individual has taken the appropriate class and successfully completed the written exam(s).

NOTE: Any individual failing the written exam in an attempt to become re-certified will not be allowed to re-test and will be required to attend the appropriate class and successfully complete the written exam before being allowed to provide inspection, acceptance testing or independent assurance testing for that certifiable area. Individuals failing the written and/or performance exam(s) may be utilized to provide inspection and acceptance testing provided the rules under “Requirements for Temporary & Seasonal Personnel” are followed and only at the discretion and approval of the Region Materials Engineers.

2. Performance Exams:

- a) Types of Performance Exams:
 - 1) Course Performance Exam.
 - 2) Re-test Performance Exam.
 - 3) Re-certification Performance Exam.
 - 4) Provisional Performance Exam.
- b) The individual will be required to demonstrate and/or explain the material test procedure as determined by the testing agency.
- c) Individuals shall successfully complete all of the items covered on the checklist for each test method within the test procedure time restraints. The omission of one or more of the prescribed

procedures will constitute failure of the performance test method. The individual will be allowed two trials on the day of the performance examination for each test procedure. Failure of any one of the prescribed tests after two trials will constitute failure of the entire performance exam. Grading of the performance exam is on a Pass/Fail basis.

- d) Any individual failing the performance exam on the day of the examination has the opportunity to retake another exam at the scheduling convenience of the department.
- e) If the individual fails the performance exam a second time, they will not be allowed to provide testing in that certifiable area until the individual attends the appropriate class and successfully completes the exam(s).

NOTE: Any individual failing a performance exam in an attempt to become re-certified will not be allowed to re-test and will be required to attend the appropriate class and successfully complete the performance exam before being allowed to provide inspection, acceptance testing or independent assurance testing for that certifiable area. Individuals failing the written and/or performance exam(s) may be utilized to provide inspection and acceptance testing provided the rules under “Requirements for Temporary & Seasonal Personnel” are followed and only at the discretion and approval of the Region Materials Engineers.

B. Requirements:

- 1. Materials Testing Certification:
 - a) Pass Written Exam.
 - b) Pass Performance Exam.
- 2. Inspection Certification:
 - a) Pass Written Exam.

V. Training

- A. Certification Courses: Courses will be provided by SDDOT or other SDDOT approved entities. Each individual attending any of the training courses or test outs shall furnish their social security, driver’s license or employee number. The number will be used as the key identifier for tracking each individual's certification record.
- B. Instructors: SDDOT will provide instructors or other authorized individuals to teach the courses.
- C. Enrollments: The South Dakota Bureau of Personnel (BOP) Training Program will support the SDDOT in maintaining course enrollment information and provide printed rosters to be e-mailed to the instructors. The instructors shall

provide an accurate roster of those attendees actually at the course to the SDDOT Materials & Surfacing Program at the completion of each course.

1. SDDOT Employees: DOT approving authority will send an e-mail requesting attendance at the training to the Department's Personnel Assistant at the Personnel Office who will forward the request to TRAINING REGISTRATION (an e-mail address). The enrollment information includes: Employee name, department, employee work address, employee's or supervisor's phone number, employee's social security number/employee's identification number/employee's drivers license number, organization MSA number, and course title, date, & location. Confirmation of enrollment and the AFE number is sent to the DOT approving authority.
 2. Non-DOT Persons: The DOT/BOP will announce the course prerequisites, cost, date(s), and time to the Non-DOT target audience. The company can enroll their personnel in the training course by e-mail to ctr@state.sd.us or letter through the mail. Enrollment information includes: employee name, company, company billing address, employee work address, employee's or supervisor's phone number, employee's social security number or drivers license number, and course title, date, & location. Confirmation of enrollment will be sent to the employee's supervisor or company.
 3. Attendance Cancellation Policy: If the individual enrolled in the course cannot attend the training, the individual, supervisor, or company is required to cancel their registration at least 24 hours prior to the start of the training course. To cancel an individual from the training course call (605) 773-3461. Failure to cancel will result in a no show and deprive a person on the waiting list from being able to attend.
- D. Training Costs: The SDDOT will determine the cost of the training course for those they are conducting. Other training entities (ACI, Erosion & Sediment Control & Asphalt QC/QA) will determine the cost of the training that they provide. These costs will be provided in the course announcements. The cost of training manuals may be billed separately.
- E. Contractor, Consultant, or Other Entities:
1. Shall pay for training courses and manuals as outlined above.
 2. Shall be charged for certification course enrollees who do not show at the training class. A refund of the registration fee(s), if prepaid, will be granted if the class is canceled by the SDDOT. If notified on the day of the training that an individual is unable to attend due to inclement weather or good cause (605-773-3461), the registration fee may be refunded.

PROCEDURE FOR CALIBRATING EQUIPMENT

Equipment Checked:

SIEVES Fine

(M-92 E-11) SD 202

Procedure #6

Purpose:

This method provides instructions for checking the physical condition of laboratory test sieves ranging in size from 3" to the #4 and visually from the #8 to the #200.

Inspection Equipment Required:

1. Caliper readable to 0.0001" or 0.01 mm.

Tolerance:

Sieves shall meet the physical requirements in the test methods listed above.

Procedure for 3" to #4

1. Measure and record three different openings along a 45 degree angle.
2. Verify that the openings are within tolerance.

Visual inspection for sieves finer than #4

1. Inspect the general condition for waviness, dents, scratches or looseness. Record findings.

12/96

Figure 1 - Example of a Procedure for Calibrating Equipment

APPENDIX 1

**SOUTH DAKOTA DEPARTMENT OF TRANSPORTATION
REGION AND FIELD LAB/AREA
Revised April 2010
BITUMINOUS MATERIALS AREA**

APPARATUS	REQUIREMENT	IA REGION CALIBRATION & VERIFICATION FREQUENCY	ACCEPTANCE FIELD LAB/AREA CALIBRATION & VERIFICATION FREQUENCY	TEST METHOD	PROCEDURE NUMBER
Ovens	Verify Settings.	12 mo.	Prior to use on proj.		02
Sieves					
Coarse	Check physical condition.	12 mo.	12 mo.	M-92	06
Fine	Check physical condition.	12 mo.	12 mo.	M-92	06
Vacuum System	Check pressure.	12 mo.	12 mo.	T-100, T-209	09
Marshall Hammer	Check critical dimensions and weight of hammer.	12 mo.	12 mo.	T-245, SD 313	16
Mechanical Marshall Hammer Correlation	Calibrate.	36 mo.	36 mo.	T-245, SD 313	17
Marshall Molds & Breaking Head	Check critical dimensions.	12 mo.	12 mo.	T-245, SD 313	30
Mechanical Shaker (Thoroughness)	Check sieving thoroughness.	12 mo. Permanent Locations	24 mo. Permanent Locations	T-27, SD 202	40
Thermometers	Calibrate.	12 mo.	12 mo.		44
Balances and Scales	Verify.	12 mo. Perm. Loc.	Prior to use on proj.	M-231	45
Gyratory Molds, Ram Heads & Base Plates	Check critical dimensions.	12 mo.	12 mo.	T-312	49
Uncompacted Void Content Apparatus	Calibrate	12 mo.	12 mo.	T-304	76
Gyratory Compactor	Calibrate	12 mo.	12 mo.	T-312	78
Caliper	Calibrate	12 mo.	12 mo.		81
10' Straightedge	Calibrate	12 mo.	12 mo.	ASTM E -1703	82

**SOUTH DAKOTA DEPARTMENT OF TRANSPORTATION
REGION & FIELD LAB/AREA
Revised October 2009
SOIL AND AGGREGATE AREA**

APPARATUS	REQUIREMENT	IA REGION CALIBRATION & VERIFICATION FREQUENCY	ACCEPTANCE FIELD LAB/AREA CALIBRATION & VERIFICATION FREQUENCY	TEST METHOD	PROCEDURE NUMBER
Ovens	Verify temperature settings.	12 mo.	Prior to use on proj.		02
Handheld Rammer (Proctor)	Check weight & critical dimensions.	12 mo.	12 mo.	T-99, T-180, SD 104	04
Molds (Proctor)	Check critical dimensions.	12 mo.	12 mo.	T-99, T-180, SD 104	05
Sieves					
Coarse	Check physical condition.	12 mo.	12 mo.	M-92	06
Fine	Check physical condition.	12 mo.	12 mo.	M-92	06
Liquid Limit Device & Grooving Tool	Check wear & critical dimensions.	12 mo.	12 mo.	T-89, SD 207	15
Specific Gravity Apparatus (Coarse Agg)	Check critical dimensions.	12 mo.	12 mo. *	T-85, SD 210	23
Conical Mold & Tamper	Check critical weights & dimensions.	24 mo.	24 mo. *	T-84, SD 209	33
Mechanical Shakers (Thoroughness)	Check sieving thoroughness.	12 mo.	Prior to use on proj.	T-27, SD 202	40
Thermometers	Calibrate.	12 mo.	Prior to use on proj.	T-88, T-100	44
Balances and Scales	Verify.	12 mo.	Prior to use on proj.	M-231	45
Mechanical Rammer (Proctor)	Check weight & critical dimensions.	12 mo.	12 mo.	T-99, T-180, SD 104	67
Rubber Balloon Density Apparatus	Calibrate.	12 mo.	12 mo.	T-205, SD 106	68
Specific Gravity Flasks	Calibrate.	12 mo.	12 mo. *	T-84, SD 209	69
Straightedge	Check critical dimensions & planeness of edge.	12 mo.	12 mo.	T-99, T-180, SD 104	70
Sand Equivalent Apparatus	Check critical dimensions.	12 mo.	12 mo.	T-176	75
Caliper	Calibrate	12 mo.	12 mo.		81
10' Straightedge	Calibrate	12 mo.	12 mo.	ASTM E -1703	82

***Additional Calibration required for QC/QA Asphalt Mix Designs**

**SOUTH DAKOTA DEPARTMENT OF TRANSPORTATION
REGION & FIELD LAB/AREA
Revised October 2009
CONCRETE AREA**

APPARATUS	REQUIREMENT	IA REGION CALIBRATION & VERIFICATION FREQUENCY	ACCEPTANCE FIELD LAB/AREA CALIBRATION & VERIFICATION FREQUENCY	TEST METHOD	PROCEDURE NUMBER
Unit Weight Measures	Calibrate.	12 mo.	12 mo.	T-19, T-121, SD 204, SD 205	07
Compression Machine Bearing Blocks	Verify depart. from plane.	12 mo.	12 mo.	T-22	11
Slump Cones	Check critical dimensions.	12 mo.	12 mo.	T-119, SD 404	38
Concrete Cylinder Molds (Single Use)	Check dimensions.	Each Shipment	Each Shipment	T-22, M-205, SD 405	43
Balances and Scales	Verify.	12 mo.	Prior to use on proj.	M-231	45
Compression Testing Machine	Verify.	12 mo.	12 mo.	T-22	45
Air Meter Pressure (Type A)	Calibrate.	12 mo.	Prior to use on proj.	T-152, SD 403	59
Concrete Cylinder Molds (Reusable)	Check dimensions.	12 mo.	12 mo.	T-22, M-205, SD 405	71
Air Meter Pressure (Type B)	Calibrate.	12 mo.	Prior to use on proj.	T-152, SD 403	72
aliper	Calibrate	12 mo.	12 mo.		81
10' Straightedge	Calibrate	12 mo.	12 mo.	ASTM E -1703	82

Appendix 2

LISTING OF REGION & FIELD LAB CALIBRATION PROCEDURES April 2010

EQUIPMENT	PROCEDURE #	RECORD #
OVENS	02	02
HANDHELD RAMMER (PROCTOR)	04	04
MOLDS (4" AND 6" PROCTOR)	05	05
SIEVES (COARSE)	06	06-C
SIEVES (FINE)	06	06-F
UNIT WEIGHT MEASURE	07	07
VACUUM SYSTEM	09	09
COMPRESSION MACHINE BEARING BLOCKS	11	11
LIQUID LIMIT DEVICE & GROOVING TOOL	15	15
MARSHALL HAMMER	16	16
MECHANICAL MARSHALL HAMMER CORRELATION	17	17
SPECIFIC GRAVITY APPARATUS (COARSE AGG)	23	23
MARSHALL MOLD	30	30
CONICAL MOLD & TAMPER	33	33
SLUMP CONE	38	38
MECHANICAL SHAKER (THOROUGHNESS)	40	40
CONC. CYL. MOLDS (SINGLE USE)	43	43
THERMOMETERS	44	44
SCALES, BALANCES, ANALYTICAL BALANCES, LOAD CELLS & COMPRESSION MACHINES	45	45
GYRATORY MOLDS, RAM HEADS & BASE PLATES	49	49
AIR METER PRESSURE (TYPE A)	59	59
MECHANICAL RAMMER (PROCTOR)	67	67
RUBBER BALLOON DENSITY APPARATUS	68	68
SPECIFIC GRAVITY FLASKS	69	69
STRAIGHTEDGE	70	70
CONC. CYL. MOLDS (REUSABLE)	71	71
AIR METER PRESSURE (TYPE B)	72	72
SAND EQUIVALENT APPARATUS	75	75
UNCOMPACTED VOID CONTENT APPARATUS	76	76
GYRATORY COMPACTOR	78	78
CALIPER	81	81
10' STRAIGHTEDE	82	82

Appendix 3

SOUTH DAKOTA DEPARTMENT OF TRANSPORTATION ASPHALT CONCRETE QUALITY CONTROL / QUALITY ASSURANCE CERTIFICATION PROGRAM

1. SCOPE:

The purpose of this program is to develop and maintain a pool of well-trained technicians for the Department and its contractors, and to test and manage highway construction materials. The intent of this program is to improve the quality and performance of hot mixed asphalt pavements through knowledge and understanding of the products.

2. CERTIFICATION LEVELS:

Introduction to Asphalt Concrete (strongly recommended but not mandatory.)

Asphalt Concrete Aggregate Testing.

Asphalt Concrete Hot Mix Testing

Asphalt Concrete Roadway Inspection.

Asphalt Concrete Mix Design & Production Control.

Aggregate Testing, Asphalt Concrete Hot Mix Testing and Asphalt Concrete Roadway Inspection are prerequisites to Asphalt Concrete Mix Design and Production Control.

3. CERTIFICATION STANDARDS:

When the South Dakota Department of Transportation specifications require Quality Control / Quality Assurance testing, those technicians performing the sampling and testing must be certified in South Dakota. Certification may be attained in one of the following ways:

- A. Technicians currently certified in a surrounding state have the opportunity to test out of Asphalt Concrete Roadway Inspection. The candidate may request to test out of these specific certification levels by requesting in writing to the Chief South Dakota Department of Transportation Materials and Surfacing Engineer their desire to test out. The candidate must furnish documented work history showing that the candidate has been involved in the specific work area the past four years that relates to the certification level and have a current applicable certification level from one of the surrounding states.
- B. Candidates not currently certified in a surrounding state, or not eligible to test out, must attend the certified training course.
 - 1. As a prerequisite to attending the certified training course, the candidate must exhibit basic mathematics and comprehensive reading skills.

2. The candidate shall successfully complete the classroom and laboratory evaluations if the course requires a laboratory evaluation.
 - a. Laboratory Evaluation – Candidates must successfully perform in the presence of a qualified evaluator, all necessary tests required to control hot mixed asphalt mixtures as outlined in the course manual.
 - b. Classroom Evaluation – Each candidate shall successfully pass a written examination administered by a qualified evaluator.
 - i. Successfully passing the written examination shall be defined as scoring a minimum of 70 percent.
 - ii. A candidate failing the written examination shall be given the opportunity to retest within a period of thirty (30) days. There will be no charge for the retest.
 - iii. Failure to pass the retest shall be considered as failing the entire course. Students still desirable of becoming certified must retake the entire course.
3. No refund of course fees will be made for failure to successfully complete the course.

C. Provisional Certification may be allowed under special circumstances.

1. The applicant's employer, whether SDDOT or contractor, must include the circumstances for the needed provisional status. These circumstances must outline the reasons for application and should be detailed enough for the Certification Advisory Committee to understand the organizational need for provisional certification.
2. A prior work history of the applicant must accompany the request for provisional status.
3. Whoever is applying for provisional certification in Asphalt Concrete Aggregate Testing, Asphalt Concrete Hot Mix Testing or Asphalt Concrete Roadway Inspection must pass the test for the area of work they are going to perform. This test would be administered by the SDDOT at a SDDOT site.
4. If the applicant successfully passes the test, they must work under the direction of an Asphalt Concrete Aggregate Testing, Asphalt Concrete Hot Mix Testing or Asphalt Concrete Roadway Inspection certified individual for a period of not less than 2 days to ascertain familiarity with the project requirements and appropriate tests and procedures.
5. Provisional Certification is only valid for one (1) calendar year.

4. CERTIFICATION:

Final certification shall be contingent upon the applicant passing all course requirements. The SDDOT Materials and Surfacing Accreditation Engineer in Pierre shall maintain records of certification. Candidates are responsible for assuring that they work only in areas in which they are certified, that their certification does not expire, and that they are able to provide proof of certification when requested.

Asphalt Concrete Aggregate Testing and Asphalt Concrete Hot Mix Testing will cover the same tests and be equivalent certification to Bituminous Technology II “Bituminous Laboratory Testing” and Bituminous Technology SP “Superpave Laboratory Testing”.

5. RECERTIFICATION:

A technician’s certification is valid for not more than four (4) years, after which the individual must become recertified before the expiration date of the current certification. Recertification can be accomplished in one of the following ways which are determined by the Certification Advisory Committee.

- A. The candidate for recertification must furnish documentation to the Certification Advisory Committee that he or she has consistently performed the required tests for the previously certified period. A refresher course will be held which will consist of ½ to 1 day of classroom/lab instruction and a test for recertification.
- B. The candidate for recertification who has taken and passed the Asphalt Concrete Mix Design and Production Control certification course will have their other current Asphalt Concrete certification expiration dates revised to reflect the Asphalt Concrete Mix Design and Production Control expiration date.
- C. A candidate may retake and successfully complete the certification course at an interval of not more than four (4) years.

After successful recertification, the technician will be fully certified for an additional four (4) year period.

6. DECERTIFICATION:

For just cause, the Certification Advisory Committee may impose suspension or revocation of an individual’s certification at any time. An individual may be subject to revocation or suspension of their certification based on falsification of records/tests/reports, negligence, or abuse of their responsibilities. The Certification Advisory Committee may also suspend or revoke an individual’s certification for other reasons of just cause, which may or may not be specifically defined. Two levels of misconduct which may result in decertification, along with the associated penalties, are defined as follows:

- 1. Negligence: Negligence is defined as repeated unintentional deviations from approved procedures, which may or may not cause erroneous results. A reoccurring finding of negligence will result in a letter from the Certification

Advisory Committee to the Employer directing them to write a letter of reprimand to the individual. A continuing finding will result in a thirty (30) day suspension of the individual's certification. Any subsequent finding will be treated as abuse.

2. Abuse: Abuse is defined as intentional deviations from approved procedures. (Examples of abuse include, but are not limited to: the falsification of test results or records, submittal of false information on certification applications, and/or unwillingness to follow prescribed test procedures). The first instance of abuse shall result in a one (1) year suspension of an individual's certification. Any subsequent finding of abuse shall result in the permanent revocation of the individual's certification.

Allegations of misconduct shall be made to the Certification Advisory Committee in writing. The allegation shall contain the name, phone number, address and signature of the individual(s) making the allegation. Upon receipt of the written allegation, the Oversight Committee will investigate the matter. If warranted, the accused and the individual(s) making the allegation will be given the opportunity to appear before the Certification Advisory Committee to resolve the allegation. The Chair of the Certification Advisory Committee will provide written notification to all of the involved parties of the decision of the Certification Advisory Committee. Any warranted penalties may be imposed as determined by the Certification Advisory Committee.

Any findings of abuse or negligence warranting the revocation or suspension of an individual's certification will result in the revocation or suspension of all certifications held by that individual in the various Materials Testing or Inspection Areas. When the suspended individual is reinstated and prior to performing work, the individual will be required to pass the written and/or performance certification exams as applicable, and the individual's certification expiration date(s) will be that expiration date(s) held prior to suspension.

7. CERTIFICATION ADVISORY COMMITTEE:

The purpose of the Certification Advisory Committee is to review the certification program on an annual basis or as often as deemed necessary by the Chair of the Committee. They shall provide suggestions for modifications and improvements to the program curriculum and operations; review accusations concerning decertification and make recommendations to the Chief Materials and Surfacing Engineer and determine when refresher courses are needed. The Certification Advisory Committee shall perform other duties as required to successfully implement and continue the certification program. A meeting of the committee may be called at anytime by the Chair of the Committee or by written request of at least 3 members of the Committee. A majority of the members of the Committee shall be present for the transaction of official business.

Membership: The membership of the Certification Advisory Committee shall be composed of the following individuals:

Chair: Construction Engineer
Chief Materials & Surfacing Engineer
Region Representative (appointed by the Chair)
Current Chairman of the AGC Bit/Gravel Committee

Industry Representative (appointed by the AGC Chair)
Industry Representative (appointed by the AGC Chair)
Supplier

8. REGISTRATION:

Registration information for any of the certification levels can be obtained from the Associated General Contractors of South Dakota office in Pierre. Contact the AGC at (605) 224-8689 or their website at sdagc.org for more information.