CURRENT COURSES:

ASSISTANT CERTIFIED TECHNICIAN PROGRAM (ACT)

1) Assistant Certified Technician, Aggregate Course
2) Assistant Certified Technician, Hot Mix Asphalt Course (prerequisite: ACT Aggregate Course)
3) Assistant Certified Technician, Portland Cement Concrete Course
4) Assistant Certified Technician, Concrete Strength Course
5) Assistant Certified Technician, Nuclear Density Gauge Operator Course
6) Assistant Certified Technician, Grading Course
7) Assistant Certified Technician, Profiler Course

AGGREGATE SAMPLING TECHNICIAN (AGGTEC-Sampling)
BEGINNING 2013, THIS COURSE WILL BE REPLACED WITH TMS (TRANSPORTATION MATERIALS SAMPLING) UPON COMPLETION OF THE HMA TRUCK BOX SAMPLING COMPONENT.

Course Prerequisites: None
This course requires 8 hours of classroom attendance. The Federal Highway Administration requires that all sampling and testing data used in acceptance decisions on National Highway System projects be conducted by qualified personnel. This course qualifies the technician to procure samples from aggregate stockpiles, conveyor belts, aggregate roadbeds, and Hot Mix Asphalt-Truck Box Sampling. A person may earn 0.8 Continuing Education Units (CEUs) upon successful completion of this course.

AGGREGATE TECHNICIAN I (AGGTEC-I)

Course Prerequisites: None
This course requires 32 hours of lecture/laboratory attendance. The course content will cover Wisconsin geology, aggregate production, properties of aggregates, WisDOT standard specifications, WisDOT aggregate quality management program procedure manual, aggregate sampling, moisture content, fine and coarse sieve analysis, an introduction to determining plastic limit of soils, statistical quality control, moisture/density relationship, and fracture/elongation determination. This course was previously titled Aggregate Technician IPP. A person may earn 3.2 Continuing Education Units (CEUs) upon successful completion of this course.

The AGGTEC-I certification carries the TMS certification.

AGGREGATE TESTING FOR TRANSPORTATION SYSTEMS (ATTS)

Course Prerequisites: Aggregate Technician I (AGGTEC-I)
This course requires 20 hours of lecture/laboratory attendance. The course content will cover aggregate source (pit, quarry) quality testing. The producer will perform the following tests on their split sample portion: LA Wear, Sodium Sulfate Soundness, Freeze/Thaw Soundness, Fracture, Liquid Limit, Plasticity, Coarse Aggregate Specific Gravity & Absorption, and Lightweight Pieces. A person may earn 2.0 Continuing Education Units (CEUs) upon successful completion of this course.

The ATTS certification carries the AGGTEC-I and TMS certifications.

AGGREGATE TECHNICIAN II (AGGTEC-II)

Course Prerequisites: Student candidates must have a minimum of one construction season of field experience in materials testing AFTER becoming a Certified Aggregate Technician I (AGGTEC-I).
This course requires 20 hours of classroom attendance. The course will cover origin and types of rock in Wisconsin, aggregate performance, aggregate properties, aggregate quality tests, extraction principles, processing plant principles, process control/troubleshooting techniques, aggregate blending, WisDOT aggregate quality management program procedure manual, WisDOT standard specifications, and statistical quality control. A person may earn 2.0 Continuing Education Units (CEUs) upon successful completion of this course.

The AGGTEC-II certification carries the AGGTEC-I and TMS certifications.

HOT MIX ASPHALT, TECHNICIAN I, PRODUCTION TESTER (HMA-IPT)

Course Prerequisites: Student candidates must have successfully completed one construction season of field experience or equivalent education prior to enrollment, and be certified as an Aggregate Technician I (AGGTEC-I).
This course requires 36 hours of classroom/laboratory attendance. The course content will cover types of asphalt plants, WisDOT’s QC/QA asphaltic quality management program procedures, WisDOT standard specifications, statistical quality control, and laboratory testing, such as: sampling, quartering, compaction, bulk specific gravity, rice maximum specific gravity and WisDOT 1560 asphalt extraction. This course was previously titled HMATEC-I. A person may earn 3.6 Continuing Education Units (CEUs) upon successful completion of this course.

The HMA-IPT certification carries the AGGTEC-I and TMS certifications.
1 Equivalent education is understood to mean that the student candidate has physically conducted the required AASHTO standard method tests in an academic environment at either a university or a technical school within the framework of normal course work.

HOT MIX ASPHALT, TROUBLE SHOOTING, PROCESS CONTROL (HMA-TPC)
Course Prerequisites: Student candidates must have successfully completed one construction season of field experience in material testing AFTER becoming a Hot Mix Asphalt, Technician I, Production Tester (HMA-IPT).
This course requires 20 hours of classroom attendance. The course content will cover WisDOT’s asphaltic quality management program, WisDOT standard specifications, aggregate blending, Superpave hot mix asphalt design methodology; types of asphalt plants, process control/troubleshooting techniques and statistical quality control. This course was previously titled HMATEC-II. A person may earn 2.0 Continuing Education Units (CEUs) upon successful completion of this course.
The HMA-TPC certification carries the HMA-IPT, AGGTEC-I and TMS certifications.

HOT MIX ASPHALT, MIX DESIGN, REPORT SUBMITTALS (HMA-MD)
Course Prerequisites: Student candidates must have successfully completed one construction season of field experience in asphalt pavement problem analysis AFTER becoming a Hot Mix Asphalt, Technician I, Production Tester (HMA-IPT).
This course requires 32 hours of classroom/laboratory attendance. The mix design will provide participants with a working knowledge of the mix design process using Superpave. The five-day program will be divided into classroom and laboratory sessions to combine technical knowledge with actual Superpave mix design preparation and evaluation. The course will also cover the latest version of the WisDOT quality management program specifications related to the Superpave mix and design system. This course was previously titled HMATEC-III. A person may earn 3.2 Continuing Education Units (CEUs) upon successful completion of this course.
The HMA-MD certification carries the HMA-IPT, AGGTEC-I and TMS certifications.

CONCRETE STRENGTH TESTER (CST)
Course Prerequisites: None
This course requires 8 hours classroom/laboratory attendance. The course content will cover capping cylindrical specimens, compressive strength of cylindrical specimens and rate of loading, flexural and split tensile strength testing, use of unbounded caps in determination of compressive strength of hardened concrete cylinders (with neoprene supplemental) and obtaining and testing drilled cores and sawed beams of concrete. A person may earn 0.8 Continuing Education Units (CEUs) upon successful completion of this course.

PORTLAND CEMENT CONCRETE TECHNICIAN I (PCCTEC-I)
Course Prerequisites: None
This course requires 20 hours of classroom/laboratory attendance. This course will discuss fundamentals of concrete, concrete paving, random sampling, sampling and testing of freshly mixed concrete, air pressure meter calibration, casting and curing concrete cylinders, quality control charts, latest quality management program specifications for bridge decks and other structural members along with mainline pavements. A person may earn 2.0 Continuing Education Units (CEUs) upon successful completion of this course.

ACI/WISDOT CERTIFIED PORTLAND CEMENT CONCRETE TECHNICIAN I (PCCTEC-I)
Course Prerequisites: ACI Grade I certification
See PCCTEC-I above for course description. This selection is offered to those individuals who have ACI Grade I certification (within the past three years) and who wish to obtain WisDOT PCCTEC-I certification. A copy of the registrant’s ACI Grade I certificate or I.D. card must be received by HTCP within 10 working days before the course is offered.

PORTLAND CEMENT CONCRETE TECHNICIAN II (PCCTEC-II)
Course Prerequisites: Portland Cement Concrete Technician I (PCCTEC-I)
This course requires 20 hours of classroom attendance. This course will cover aggregate correction factor, coarse and fine specific gravity and absorption, dry rodded unit weight, cementitious materials, admixtures, combined aggregate gradation, proportioning of concrete mixture, hot/cold weather concreting, statistical analysis, record keeping, current quality management program specifications, curing/concrete, and depth probing. A person may earn 2.0 Continuing Education Units (CEUs) upon successful completion of this course.
The PCCTEC-II certification carries the PCCTEC-I certification.
GRADING TECHNICIAN I (GRADINGTEC-I)
Course Prerequisites: None
This course requires 32 hours of classroom/laboratory attendance. The course content will cover random sampling methods, basic soil types, moisture-density relationship, The Atterberg Limits, WisDOT’s grading quality management program, WisDOT standard specifications, and statistical quality control. A person may earn 3.2 Continuing Education Units (CEUs) upon successful completion of this course.

PROFILER TECHNICIAN I (PROFILER)
Course Prerequisites: Must complete on-line training and pass the on-line exam.
This course requires 4 hours of on-line training and 8 hours of classroom/hands-on instruction. Upon completion of this course, the student should understand the fundamental use of the profiler and be able to operate the profiler on a project. The student will become familiar with:

- Principles of profiler
- Computer printout review/examples
- Standard specification and special provision review
- Field work layout and computer set-up
- Hands-on operation and maintenance

A person may earn 1.2 Continuing Education Units (CEUs) upon successful completion of this course.

NUCLEAR DENSITY TECHNICIAN I (NUCDENSITYTEC-I)
Course Prerequisites: None
This course requires 16 hours of classroom/laboratory attendance. Upon completion of this course, the student should understand the operation of the nuclear density gauge on asphaltic concrete, crushed aggregate base course, and on non-cohesive and cohesive soils. The student will also become familiar with random sampling methods, WisDOT standards and special provisions review, radiation safety, calibration and correlation of nuclear density gauges, and troubleshooting techniques. A person may earn 1.6 Continuing Education Units (CEUs) upon successful completion of this course.

TRANSPORTATION MATERIALS SAMPLING TECHNICIAN (TMS)
BEGINNING 2013, THIS COURSE WILL REPLACE AGGREGATE SAMPLING TECHNICIAN UPON COMPLETION OF THE HMA TRUCK BOX COMPONENT.
Course Prerequisites: None
This course requires 8 hours of classroom attendance. The Federal Highway Administration requires that all sampling and testing data used in acceptance decisions on National Highway System projects be conducted by qualified personnel. This course qualifies the technician to procure samples from aggregate stockpiles, conveyor belts, aggregate roadbeds, and Hot Mix Asphalt-Truck Box Sampling. A person may earn 0.8 Continuing Education Units (CEUs) upon successful completion of this course.