

**WYOMING MATERIALS CERTIFICATION
PROGRAM ONLINE
2020-2021**



UNIVERSITY OF WYOMING

AGGREGATE, ASPHALT, CONCRETE

**SPONSORED BY:
WYOMING DEPARTMENT OF TRANSPORTATION
CERTIFICATION COMMITTEE**

INTRODUCTION:

These seminars will offer a specialized certification program emphasizing Wyoming DOT specifications and procedures.

All aggregate, asphalt, and concrete instruction will take place online through Zoom. All written tests (besides ACI) will be administered through an online test-taking platform.

The certification will include online classroom sessions covering topics specific to the area of emphasis. All certification sessions will include demonstrations and review of testing procedures. The successful completion of this seminar will fulfill the testing technician certification requirements for Wyoming DOT QC/QA projects. A certification certificate for each program will be issued upon successful passing of both a written test and a performance test. Wyoming DOT QC/QA projects require testing technicians to be certified for asphalt and concrete projects. **All three certifications are good for 5 years.**

Please note that successful completion of the Aggregate Seminar is not required in order to attend the Concrete or Asphalt Seminars.

WHO SHOULD ATTEND?

People desiring a certification or the necessary qualifications for conducting or overseeing the testing of materials on Wyoming DOT QC/QA projects are encouraged to apply.

Note: These certification courses are **not introductory programs or training**. It is advised that applicants have at least one (1) year of experience in road or bridge construction, including aggregate testing.

Applicants must exhibit basic math and reading comprehension skills, be able to perform the calculations required for each test procedure including the use of percentages, have a basic knowledge of metric measurement, and be able to use metric conversions.

SEMINAR REQUIREMENTS

- This seminar is a certification program, not a training
- Access to a working computer with speakers
- Access to working printer (to print course materials & forms for exam)
- A way to download and save provided PDFs onto your computer
- We recommend having a webcam for Zoom videos
- Download free version of Zoom to have video calls <https://zoom.us/download>
- A calculator with the STAT function and an understanding of how to use it
- WYDOT Specification Book

Each day, we will have a zoom call with a code. Once you download Zoom, you can find a link to the course on our website or through email.

SEMINAR INSTRUCTORS

Dr. Khaled Ksaibati, P.E.

Dr. Kim Basham, P.E.

Dr. Thom Edgar, P.E.

WYDOT Materials Office Staff and UW Staff

TOPICS TO BE COVERED (BY SESSION)

AGGREGATE SEMINAR includes topics on aggregate materials including physical properties, types & uses, testing, job mix formulas, specifications, construction, and acceptance. Instruction and written exams will take place on the dates below. After you complete all written and performance online exams, we will let you know if you have passed. After passing all the online exams, you will go to the WYDOT Materials Lab in Cheyenne, WY at the scheduled dates below. If you had an IA inspection you are exempt from the hands-on performance exam. **

Session I **December 14-16, 2020**
Session II **January 11-13, 2021**
Session III **May 19-21, 2021**

ASPHALT SEMINAR includes asphalts, aggregates, mix designs, field testing, specifications, construction, and acceptance. Instruction and written exams will take place on the dates below. After you complete all written and performance online exams, we will let you know if you have passed. After passing all the online exams, you will go to the WYDOT Materials Lab in Cheyenne, WY at the scheduled dates below. If you had an IA inspection you are exempt from the hands-on performance exam. **

Session I **December 9-11, 2020**
Session II **January 13-15, 2021**
Session III **May 24-26, 2021**

CONCRETE FIELD TESTING SEMINAR includes properties of concrete materials, fundamentals of concrete, proper practices for placing concrete, a review and hands-on training of testing procedures. Included are methods and practices recommended by ACI and AASHTO.

ACI Certification is no longer a mandatory portion of the Wyoming Certification. If you want to be ACI certified contact the AGC/WCA in Casper at (307) 237-4400. Instruction and written exams will take place on the dates below. After you complete all written and performance online exams, we will let you know if you have passed. After passing all the online exams, you will go to the WYDOT Materials Lab in Cheyenne, WY at the scheduled dates below. If you had an IA inspection you are exempt from the hands-on performance exam. **

Session I is the last session we are providing with ACI Certification (**limited seats, confirmation will be provided after registration**). The ACI written & performance Exam will be on October 26th. You will go to the WYDOT Facility in Cheyenne to take it.

Session I (With ACI EXAM) October 19-21, 2020
Session II (NO ACI EXAM in 2021 and beyond) January 6-8, 2021
Session III (NO ACI EXAM in 2021 and beyond) May 17-19, 2021

IN PERSON PERFORMANCE EXAM DATES:

ACI Concrete ONLY- October 26 (8:00 AM-12:00 PM)

Aggregate/Asphalt- December 21 (8:00 AM-12:00 PM)

Aggregate/Asphalt- January 18 (8:00 AM-12:00 PM)

Concrete- January 19 (8:00 AM-12:00 PM)

Aggregate/Asphalt- June 1 (8:00 AM-12:00 PM)

Concrete- June 2 (8:00 AM-12:00 PM)

RETEST DATES:

You will be notified if you need to take a retest for the written exam. You will register and pay for one of the following dates. On the day of the test, we will email you a link for the retest.

Aggregate, Asphalt, and Concrete Retest Dates:

- November 10, 2020** 10 a.m. - 12 p.m.
- January 20, 2021** 10 a.m. - 12 p.m.
- January 26, 2021** 10 a.m. - 12 p.m.
- February 9, 2021** 10 a.m. - 12 p.m.
- May 27, 2021** 10 a.m. - 12 p.m.
- June 2, 2021** 10 a.m. - 12 p.m.

If these dates and times are not good for you, please contact us via email at wyt2c@uwyo.edu to arrange another date or time.

**All in person performance and ACI exams will be done in small groups to comply with social distancing standards.

PAVEMENT SMOOTHNESS PROFILER SEMINAR: This seminar offers a **Driver Certification** for operators who will be performing pavement smoothness and profile analysis and a **Vehicle Certification** for inertial profiler vehicles used for profile analysis testing. Applicants must bring the profiling equipment that they will be operating to the seminar. The seminar will be conducted by the WYDOT Materials Program staff at the Materials Laboratory in Cheyenne. Contact WYDOT Materials Pavement Management staff for information concerning the Smoothness Profiler Certifications. **Telephone: 307-777-4476.**

REGISTRATION INFORMATION

Cost*:

Aggregate Sessions	\$550
Asphalt Sessions	\$550
Concrete Session, without ACI Certification (2021 and beyond no ACI)	\$550
Concrete Sessions, with ACI Certification (only October 2020)	\$650
Retesting Fee (Aggregate, Asphalt, Concrete)	\$100
Retesting Fee for ACI (only October 2020)	\$250

* Fees include instruction and exams.

Payment:

To pay online, go to <http://www.uwyo.edu/wyt2/>, select Workshops, then click the blue Click Here to Register button. If you register by mail, the fee must be sent with each application form. Application forms will not be processed nor confirmed without receipt of full payment. Please make check payable to **UWYO/WYT2C.**

Cancellation/No-Show Policy: Cancellation at least 14 days prior to the selected certification session you will receive a full refund. Registrants canceling 7-13 days prior to seminars will not be eligible for a refund but will be eligible to use the fees at other seminars within one year. Cancellation less than 6 days prior to the seminar will not receive a refund. DOT registrants who do not attend a seminar will be charged the full registration amount. If an applicant cannot attend a seminar due to an emergency, he/she should contact the Wyoming Technology Transfer Center (307-766-6743) as soon as possible.

Agenda for Aggregate Sessions

Day 1	
1:00 p.m.	Registration & Welcome
1:10 p.m.	Aggregate Physical Properties
2:30 p.m.	Aggregate Types and Uses
3:15 p.m.	Break
3:30 p.m.	Aggregate Tests
5:00 p.m.	Adjournment
Day 2	
8:00 a.m.	Questions & Answers
8:15 a.m.	Aggregate Specifications
9:00 a.m.	Developing A Job Mixing Formula (JMF)
9:30 a.m.	Break
9:45 a.m.	Aggregate Construction & Points of Acceptance
10:30 a.m.	Aggregate Acceptance & Balance Verification
11:15 a.m.	Correlation of Testing Techniques
12:00 p.m.	Lunch ON YOUR OWN
1:00 p.m.	Calculations
1:45 p.m.	Aggregate Tests – Demonstrations/Videos
	Break
5:00 p.m.	Adjournment
6:30 p.m.–8:30 p.m.	<i>Online Study Session (no new material)</i>
Day 3	
8:00 to 9:30 a.m.	Online Written Examination
9:30 am - 12:00 pm	Online Performance Examination

Agenda for Asphalt Sessions

Day 1	
1:00 p.m.	Registration & Welcome
1:10 p.m.	Introduction to Asphalt
2:00 p.m.	Asphalt Performance Grading
2:45 p.m.	Break
3:00 p.m.	Aggregates for HPMBP
3:45 p.m.	Testing Technician Correlation
5:00 p.m.	Adjournment
Day 2	
8:00 a.m.	Mix Design
8:00 a.m.	CALCULATION REVIEW
8:30 a.m.	Marshall Mix Design
9:00 a.m.	Super pave
9:30 a.m.	Break
9:45 a.m.	Variables & Effects
10:00 a.m.	Production & Construction
10:30 a.m.	Calculations
12:00 p.m.	Lunch ON YOUR OWN
1:00 p.m.	QC/QA Specifications
1:45 p.m.	Verification Calculations
2:15 p.m.	Balance Verification
2:30 p.m.	Break
2:45 p.m.	Random Sampling Density
3:45 p.m.	Demonstration & Practices
5:00 p.m.	Adjournment
6:30-8:30 p.m.	<i>Online Study Session (no new material)</i>
Day 3	
8:00 to 9:30 a.m.	Online Written Examination
9:30 am - 12:00 pm	Online Performance Examination

Agenda for October Concrete Session

Day 1	
1:00 p.m.	Registration
1:10 p.m.	Welcome & Introduction
1:15 p.m.	ASTM Test Methods: Temperature, Slump, Unit Weight, Air Content – Pressure, Air Content – Volumetric, Making Cylinders & Beams
2:45 p.m.	Break
3:00 p.m.	ASTM Test Methods Continued
5:00 p.m.	Adjournment
Day 2	
8:00 a.m.	Fundamentals of Concrete
9:00 a.m.	Batch Water, Aggregate Moisture, w/cm Ratio and Adjusting Slump
10:00 a.m.	Break
10:15 a.m.	WYDOT Concrete Specifications: Pavement & Structural
11:15 a.m.	QC/QA Specifications & Testing
11:45 a.m.	Lunch ON YOUR OWN
12:45 p.m.	QC/QA Specifications & Testing continued
1:30 p.m.	Chemical Admixtures, Hot & Cold Weather Concreting, and WYDOT Weather Limitations
2:15 p.m.	Solution to Practice Problems
2:30 p.m.	Break
2:45 p.m.	Practice ASTM Test Methods
5:00 p.m.	Adjournment
6:30-8:30 pm	<i>Online Study Session (no new material)</i>
Day 3	
8:00 a.m.	Online Examinations
1:00 p.m.	Adjournment

****For Additional information about workshops, please contact us at 307-766-6743.**

An electronic copy of this brochure and registration form may be obtained from the WYDOT web page at <http://dot.state.wy.us>. Click on “Business with WYDOT” – “Training/Certification” – “Materials Technician Certification” or Wyoming Technology Transfer Center <http://www.uwyo.edu/wyt2/certifications/>

INDIVIDUAL REGISTRATION FORM

(CHECK THE APPROPRIATE BOXES)

<u>AGGREGATE</u>	<u>ASPHALT</u>
<u>Session I, II & III</u>	<u>Session I, II & III</u>
December 14-16, 2020 <input type="checkbox"/>	December 9-11, 2020 <input type="checkbox"/>
January 11-13, 2021 <input type="checkbox"/>	January 13-15, 2021 <input type="checkbox"/>
May 19-21, 2021 <input type="checkbox"/>	May 24-26, 2021 <input type="checkbox"/>
<u>CONCRETE</u>	
<u>Session I, II & III</u>	
October 19-21, 2020 (Confirmation will be provided after registration) <input type="checkbox"/>	
January 6-8, 2021 <input type="checkbox"/>	
May 17-19, 2021 <input type="checkbox"/>	
<u>PAVEMENT SMOOTHNESS PROFILER SEMINAR</u>	
Contact Sarah Rickgauer for registration information @ 307-777-4476	

Registration Aggregate (\$550): \$ _____

Registration Asphalt (\$550): \$ _____

Registration Concrete w/o ACI (\$550): \$ _____ October 2020 w/ ACI (\$650): \$ _____

Total Enclosed Registration Fee(s): \$ _____

Full Name (no nicknames): _____

Print name clearly, as this is how it will appear on your certification ID Card

ACI Cert. #: _____

ACI Cert. Expiration Date: _____

Present WYDOT Cert. #: _____

WYDOT Crew # _____

Company: _____

Phone #: _____ FAX # _____

Email: _____

Address: _____

City: _____ State: _____ Zip: _____

(Signature of Company Official)

These certification courses are not introductory programs. It is advised that applicants have at least one (1) year of experience in road or bridge construction, including aggregate testing.

Make check payable to: UWYO/WYT2C

Mail with payment to:

Wyoming Technology Transfer Center

1000 E. University Ave., Dept. 3295

Laramie, WY 82071

ONLINE REGISTRATION IS PREFERRED, PLEASE VISIT OUR WEBSITE

<http://www.uwyo.edu/wyt2/workshops/index.html>