

WYOMING MATERIALS CERTIFICATION PROGRAM ONLINE 2022 -2023

UPDATED 9/15/2022

Includes newly added Soil & Aggregate and
Asphalt sessions in March, 2023



UNIVERSITY OF WYOMING

- **SOIL & AGGREGATE**
- **ASPHALT**
- **PORTLAND CEMENT CONCRETE**

SPONSORED BY:
WYOMING DEPARTMENT OF TRANSPORTATION
CERTIFICATION COMMITTEE

UPDATED: SEPTEMBER 15, 2022

PROGRAM DESCRIPTION

These workshops offer a specialized certification program emphasizing Wyoming DOT specifications and procedures. The intentions of the workshops are a review of materials and processes to obtain certification and are not an introductory training course.

All instruction is online through Zoom. Wyoming T2 Center administers all written tests through an online test-taking platform.

The certification consists of online classroom sessions covering material-specific information, demonstrations, and a review of testing procedures. The successful completion will fulfill the testing technician certification requirements for Wyoming DOT QC/QA projects. WYDOT issues a certificate upon successfully passing both the online written test and the performance test.

Wyoming DOT QC/QA projects require that testing technicians be certified for asphalt and concrete projects. **All three certifications are good for 5 years.**

****Please note that successful completion of the Soil & Aggregate Workshop is not required to attend the Asphalt or Portland Cement Concrete Workshops.**

WHO SHOULD ATTEND?

People requiring the qualifications for conducting or overseeing materials testing on Wyoming DOT QC/QA projects are encouraged to apply.

Note: Applicants should have basic math and reading comprehension skills, be able to perform the calculations required for each test procedure, and have at least one (1) year of experience in road or bridge construction, including soil and aggregate testing.

WORKSHOPS REQUIREMENTS and DETAILS

- Access to a working computer with speakers and a webcam
- Access to working printer (to print course materials & forms for exam)
- A way to download and save provided PDFs onto your computer
- Zoom application on the computer (can be download for Free at zoom.us/download)*
- A calculator with the STAT function and an understanding of how to use it
- WYDOT Specification Book

*A Zoom link is emailed before each session and is posted on our website on the first day of each session.

WORKSHOPS INSTRUCTORS

- Dr. Khaled Ksaibati, P.E.
- Dr. Kim Basham, P.E.
- Dr. Thom Edgar, P.E.
- WYDOT Materials Office Staff and UW Staff

All sessions include an online and an in-person portion. The online, interactive learning takes place over 3-days. The first two days cover session materials and the third day is for the written exams. After the online course, you will complete the in-person Performance Exam at the WYDOT Materials Lab in Cheyenne, WY, on the day scheduled for your session.

Online Session Dates

Soil & Aggregate includes materials physical properties, types & uses, testing, job mix formulas, specifications, construction, and acceptance.

Session I	November 7 – 9, 2022
Session II	January 30 – February 1, 2023
Extra Session	March 20 – 22, 2023
Session III	May 8 – 10, 2023

Asphalt includes asphalts, soil & aggregates, mix designs, field-testing, specifications, construction, and acceptance.

Session I	November 14 – 16, 2022
Session II	February 6 - 8, 2023
Extra Session	March 27 – 29, 2023
Session III	May 15 – 17, 2023

Portland Cement Concrete includes Portland cement concrete properties materials fundamentals, proper practices for placing, training for hands-on testing procedures. Included are ASTM and AASHTO recommended methods and practices.

Session I	November 30 – December 2, 2022
Session II	February 13 – 15, 2023
Session III	May 22 - 24, 2023

ACI Certification is no longer a mandatory portion of Wyoming Certification. If you want to be ACI certified contact the AGC/WCA in Casper, WY at (307) 237-4400

In-Person Performance Exam Dates

*Per WMTC policy, testers that are recertifying may be exempt from the in person performance exam if they have sufficient Independent Assurance Inspections. You will need to contact the WYDOT materials program to confirm your eligibility.

Location: WYDOT Materials Lab
5300 Bishop Blvd, Cheyenne, Wyoming
Contact Person: John Perkins
PH: 307-777-4083 or CELL: 307-631-5332

In-Person Performance Dates Continued...

Session I

- Soil & Aggregate/Asphalt - December 6, 2022
- Portland Cement Concrete - December 7, 2022

Session II

- Soil & Aggregate/Asphalt - February 22, 2023
- Portland Cement Concrete - February 23, 2023

Extra Session

- Soil & Aggregate/Asphalt – April 4, 2023

Session III

- Soil & Aggregate/Asphalt - May 31, 2023
 - Portland Cement Concrete – June 1, 2023
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Retest Dates

You will be notified if you need to take a retest for the online 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.

Session I

- Soil & Aggregate and Asphalt: November 17 or December 5, 2022
- Portland Cement Concrete: December 5 or 6, 2022

Session II

- Soil & Aggregate and Asphalt: February 9 or 16, 2023
- Portland Cement Concrete: February 16 or 22, 2023

Extra Session

- Soil & Aggregate and Asphalt: March 23 or 30, 2023

Session III

- Soil & Aggregate and Asphalt: May 18 or 25, 2023
- Portland Cement Concrete: May 25 or 30, 2023

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.

Pavement Smoothness Profiler Workshop provides Driver Certification for operators performing pavement smoothness and profiles analysis and a Vehicle Certification for inertial profiler vehicles used for profile analysis testing. Applicants must bring the profiling equipment they will be operating to the workshops. *This IS NOT a Wyoming T2 Center online course.*

If interested, please contact WYDOT Materials Pavement Management staff for information on scheduling training at the WYDOT Material Lab in Cheyenne.

PH: 307-777-4476

REGISTRATION INFORMATION

Cost

*Includes instruction, electronic copies of training materials, and exams.

Soil & Aggregate Sessions	\$550
Asphalt Sessions	\$550
Portland Cement Concrete Session	\$550
Retesting Fee (Soil & Aggregate, Asphalt, Portland Cement Concrete)	\$100

(We will notify you if retesting is necessary)

Payment

ONLINE with a Credit Card

- <http://www.uwyo.edu/wyt2/>
- Click on “Workshops” tile
- On Workshops page > “Click Here to Register” button
- On University of Wyoming/College of Engineering/WYT2 page > Click on the WMTC tile
- On the WMTC Workshops page > Find correct sessions > click on the Cart
- Complete the registration and payment information
- Submit

MAIL

- Include check total amount with the application form
- Make the check payable to UWYO/WYT2C.
- Application forms will not be processed nor confirmed without receipt of full payment.

Cancellation/No-Show Policy

- **Full Refund** – for cancellations made up to 2 weeks before a session.
- **Credit Issued** – for cancellations between 14 - 7 days before a session. Credit can be used on any WYT2 workshops.
- **No Refund / No Credit** – for cancellations after 7days before a session and for no-shows.

Session Agendas

(*on days 1 & 2, breaks are scheduled as needed)

Soil & Aggregate

Day 1 (1:00 PM to 5:00 PM)

1:00 pm Soil & Aggregate Physical Properties
2:30 pm Soil & Aggregate Types and Uses
3:30 pm Soil & Aggregate Tests

Day 2 (8:00 AM to 5:00 PM)

8:00 am Questions & Answers
8:15 am Soil & Aggregate Specifications
9:00 am Developing A Job Mixing Formula (JMF)
9:45 am Soil & Aggregate Construction & Points of Acceptance
10:30 am Soil & Aggregate Acceptance & Balance Verification
11:15 am Correlation of Testing Technicians
12:00 pm Lunch Break
1:00 pm Calculations
1:45pm Soil & Aggregate Tests – Demonstrations/Videos
*6:30 pm–7:30 pm Online Study Session (no new material)

Day 3 (8:00 AM to 12:00 PM)

8:00 am Online Written Examinations

Asphalt

Day 1 (1:00 PM to 5:00 PM)

1:00 pm Introduction to Asphalt
2:00 pm Asphalt Performance Grading
3:00 pm Soil & Aggregates for HPMBP
3:45 pm Testing Technician Correlation

Day 2 (8:00 AM to 5:00 PM)

8:00 am Mix Design
8:00 am CALCULATION REVIEW
8:30 am Marshall Mix Design
9:00 am Super pave
9:45 am Variables & Effects
10:00 am Production & Construction
10:30 am Calculations
12:00 pm Lunch Break
1:00 pm QC/QA Specifications
1:45 pm Verification Calculations
2:15 pm Balance Verification
2:45 pm Random Sampling Density
3:45 pm Demonstration & Practices
*6:30 pm-7:30 pm Online Study Session (no new material)

Day 3 (8:00 AM to 12:00 PM)

8am-12pm Online Written Examinations

Portland Cement Concrete

Day 1 (1:00 PM to 5:00 PM)

- 1:00 pm Introduction to Portland Cement Concrete
- 1:15 pm ASTM Test Methods: Temperature, Slump, Unit Weight, Air Content – Pressure, Air Content – Volumetric, and Making Cylinders & Beams

Day 2 (8:00 AM to 5:00 PM)

- 8:00 am Fundamentals of Portland Cement Concrete
- 9:00 am Batch Water, Soil & Aggregate Moisture, w/cm Ratio and Adjusting Slump
- 10:15 am WYDOT Portland Cement Concrete Specifications: Pavement & Structural
- 11:15 am QC/QA Specifications & Testing
- 11:45 am Lunch Break
- 12:45 pm QC/QA Specifications & Testing continued
- 1:30 pm Chemical Admixtures, Hot & Cold Weather Concreting, and WYDOT Weather Limitations
- 2:15 pm Solution to Practice Problems
- 2:45 pm Practice ASTM Test Methods
- *6:30 pm-7:30 pm Online Study Session (no new material)

Day 3 (8:00 AM to 12:00 PM)

- 8am-12pm Online Written Examinations

An electronic copy of this brochure and registration form is available at these online locations:

1. Wyoming Technology Transfer Center <http://www.uwyo.edu/wyt2/certifications/>
2. WYDOT web page at <http://dot.state.wy.us>. > Business with WYDOT > Training/Certification > Wyoming Materials Technician Certification (WMTC)

For additional information or questions about the WMTC workshops, please contact Wyoming T2 Center at 307.766.6743

MAIL-IN INDIVIDUAL REGISTRATION FORM

(CHECK THE BOXES FOR THE SESSIONS YOU WOULD LIKE TO REGISTER)

Soil & Aggregate	Asphalt
<input type="checkbox"/> Session 1 (11/7-11/9 2022) <input type="checkbox"/> Session 2 (1/30 – 2/1, 2023) <input type="checkbox"/> Extra Session (3/20 – 3/22, 2023) <input type="checkbox"/> Session 3 (5/8 – 5/18, 2023)	<input type="checkbox"/> Session 1 (11/14 – 11/16, 2022) <input type="checkbox"/> Session 2 (2/6 – 2/8, 2023) <input type="checkbox"/> Extra Session (3/27 – 3/29, 2023) <input type="checkbox"/> Session 3 (5/15 – 5/17, 2023)
Portland Cement Concrete	Pavement Smoothness Profiler
<input type="checkbox"/> Session 1 (11/30 – 12/2, 2022) <input type="checkbox"/> Session 2 (2/13 – 2/15, 2023) <input type="checkbox"/> Session 3 (5/22 – 5/24, 2023)	Contact WYDOT Materials Lab PH: 307-777 - 4476

These certification courses are not introductory programs. To succeed, applicants should have at least one (1) year of experience in road or bridge construction, including Soil & Aggregate testing.

Soil & Aggregate (\$550):	\$ _____
Asphalt (\$550):	\$ _____
Portland Cement Concrete (\$550):	\$ _____
Total Enclosed Registration Fee(s):	\$ _____

Full Name (no nicknames): _____

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

Present WYDOT Cert. #: _____ WYDOT Crew # _____

Company: _____

Phone #: _____ Email _____

Address: _____

City: _____ State: _____ Zip: _____

(Signature of Company Official)

<i>Make check payable to UWYO/WYT2C</i>
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Mail with payment to:
Wyoming Technology Transfer Center
1000 E. University Ave., Dept. 3295
Laramie, WY 82071

FOR ONLINE REGISTRATION PLEASE VISIT OUR WEBSITE <http://www.uwyo.edu/wyt2>