

**WYOMING MATERIALS CERTIFICATION  
PROGRAM ONLINE  
2023 -2024**



***UNIVERSITY OF WYOMING***

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

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

**UPDATED: JULY, 2023**

## **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 introductory training courses.

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 completing 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](https://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.

<b>November Session</b>	<b>November 6 - 8, 2023</b>
<b>January Session</b>	<b>January 29 - 31, 2024</b>
<b>March Session</b>	<b>March 18 - 20, 2024</b>
<b>May Session</b>	<b>May 13 - 15, 2024</b>

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

<b>November Session</b>	<b>November 13 - 15, 2023</b>
<b>February Session</b>	<b>February 7 - 9, 2024</b>
<b>March Session</b>	<b>March 6 - 8, 2024</b>
<b>May Session</b>	<b>May 20 - 22, 2024</b>

**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.

<b>November Session</b>	<b>November 29 - December 1, 2023</b>
<b>February Session</b>	<b>February 12 - 14, 2024</b>
<b>May Session</b>	<b>May 29 - 31, 2024</b>

ACI Certification is no longer a mandatory portion of Wyoming Certification. If you want to be ACI certified, WYT2 offers classes each spring. Please go to [www.uwyo.edu/wyt2/acl-certification.html](http://www.uwyo.edu/wyt2/acl-certification.html) for more information.

## 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: 307-777-4096 or CELL: 307-631-5332

### November Session

- Soil & Aggregate/Asphalt - December 6, 2023
- Portland Cement Concrete - December 7, 2023

### January/February Sessions

- Soil & Aggregate/Asphalt - February 21, 2024
- Portland Cement Concrete - February 22, 2024

### March Session

- Soil & Aggregate/Asphalt – March 28, 2024

### May Session

- Soil & Aggregate/Asphalt – June 5, 2024
- Portland Cement Concrete – June 6, 2024

---

## 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.

### November Session

- Soil & Aggregate and Asphalt: November 16 or 28, 2023
- Portland Cement Concrete: December 4 or 5, 2023

### February Session

- Soil & Aggregate and Asphalt: February 15 or 19, 2024
- Portland Cement Concrete: February 19 or 20, 2024

### March Session

- Soil & Aggregate and Asphalt: March 21 or 26, 2024

### May Session

- Soil & Aggregate and Asphalt: May 28 or June 3, 2024
- Portland Cement Concrete: June 3 or 4, 2024

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

---

## **REGISTRATION INFORMATION**

### **Cost**

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

<b>Soil &amp; Aggregate Sessions</b> .....	\$550
<b>Asphalt Sessions</b> .....	\$550
<b>Portland Cement Concrete Session</b> .....	\$550
<b>Retesting Fee (Soil &amp; Aggregate, Asphalt, Portland Cement Concrete)</b> .....	\$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 7 days before a session and for no-shows.

# Session Agendas

(Breaks are scheduled as needed on Day 1 & 2)

## Soil & Aggregate

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

- Soil & Aggregate Physical Properties
- Soil & Aggregate Types and Uses
- Soil & Aggregate Tests

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

- Questions & Answers
- Soil & Aggregate Specifications
- Developing A Job Mixing Formula (JMF)
- Soil & Aggregate Construction & Points of Acceptance
- Soil & Aggregate Acceptance & Balance Verification
- Correlation of Testing Technicians

### **Noon - Lunch Break**

- Calculations
- 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)**

- Online Written Examinations

## Asphalt

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

- Introduction to Asphalt
- Asphalt Performance Grading
- Soil & Aggregates for HPMBP
- Testing Technician Correlation

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

- Mix Design
- Calculation Review
- Marshall Mix Design
- Super pave
- Variables & Effects
- Production & Construction
- Calculations

### **Noon - Lunch Break**

- QC/QA Specifications
- Verification Calculations
- Balance Verification
- Random Sampling Density
- Demonstration & Practices

**6:30 pm-7:30 pm** - Online Study Session (no new material)

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

- Online Written Examinations

## **Portland Cement Concrete**

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

- Introduction to Portland Cement Concrete
- 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)**

- Fundamentals of Portland Cement Concrete
- Batch Water, Soil & Aggregate Moisture, w/cm Ratio and Adjusting Slump
- WYDOT Portland Cement Concrete Specifications: Pavement & Structural
- QC/QA Specifications & Testing

### **Noon - Lunch Break**

- QC/QA Specifications & Testing continued
- Chemical Admixtures, Hot & Cold Weather Concreting, and WYDOT Weather Limitations
- Solution to Practice Problems
- 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)**

- Online Written Examinations

---

---

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

1. Wyoming Technology Transfer Center [www.uwyo.edu/wyt2/wmtc-certification/index.html](http://www.uwyo.edu/wyt2/wmtc-certification/index.html)
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**

For information on the Pavement Smoothness Profiler Workshop, which provides Driver Certification for operators who are performing pavement smoothness and profiles analysis or Vehicle Certification for inertial profiler vehicles used for profile analysis testing – please contact the WYDOT Materials Lab in Cheyenne (307-777-4476) *This is not a WYT2 offered certification.*

## **MAIL-IN INDIVIDUAL REGISTRATION FORM**

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

<b>Soil &amp; Aggregate</b>	<b>Asphalt</b>
<input type="checkbox"/> November Session (11/6 - 11/8, 2023) <input type="checkbox"/> January Session (1/29 - 1/31, 2024) <input type="checkbox"/> March Session (3/18 - 3/20, 2024) <input type="checkbox"/> May Session (5/13 - 5/15, 2024)	<input type="checkbox"/> November Session (11/13 – 11/15, 2023) <input type="checkbox"/> February Session (2/7 – 2/9, 2024) <input type="checkbox"/> March Session (3/6 – 3/8, 2024) <input type="checkbox"/> May Session (5/20 – 5/22, 2024)
<b>Portland Cement Concrete</b>	<b>Pavement Smoothness Profiler</b>
<input type="checkbox"/> November Session (11/29 – 12/1, 2023) <input type="checkbox"/> February Session (2/12 – 2/14, 2024) <input type="checkbox"/> May Session (5/29 – 5/31, 2024)	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):	\$ _____
<b>Total Enclosed Registration Fee(s):</b>	<b>\$ _____</b>

**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)

<b><i>Make check payable to UWYO/WYT2C</i></b>
--

**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>