



MnDOT's Technical Certification Program @ M-TRAC 2022

Using EEE-IA Data to Drive Change

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MnDOT Technical Certification Program



John Micheau



Rachel Brown



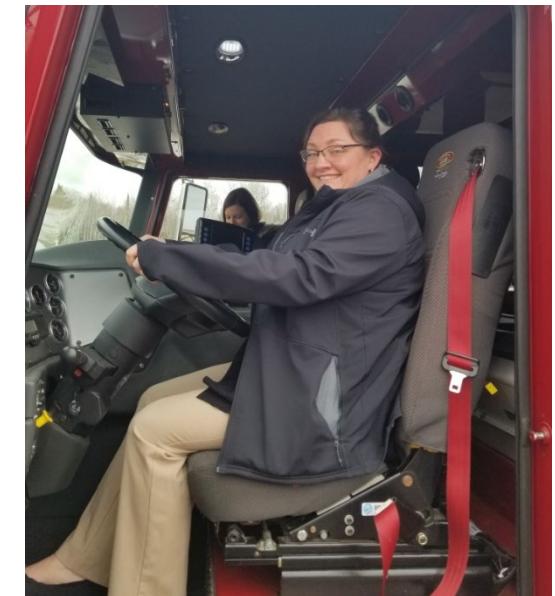
**Engineering
Specialist**



Connect. Explore. Achieve.



Suzanne Johnsrud



Shannon Wark



MnDOT Technical Certification Program Work



1. Training



2. Certifications



3. Networking

Overview – Scope

Technicians

- Testers
- Inspectors
- Mix Designers

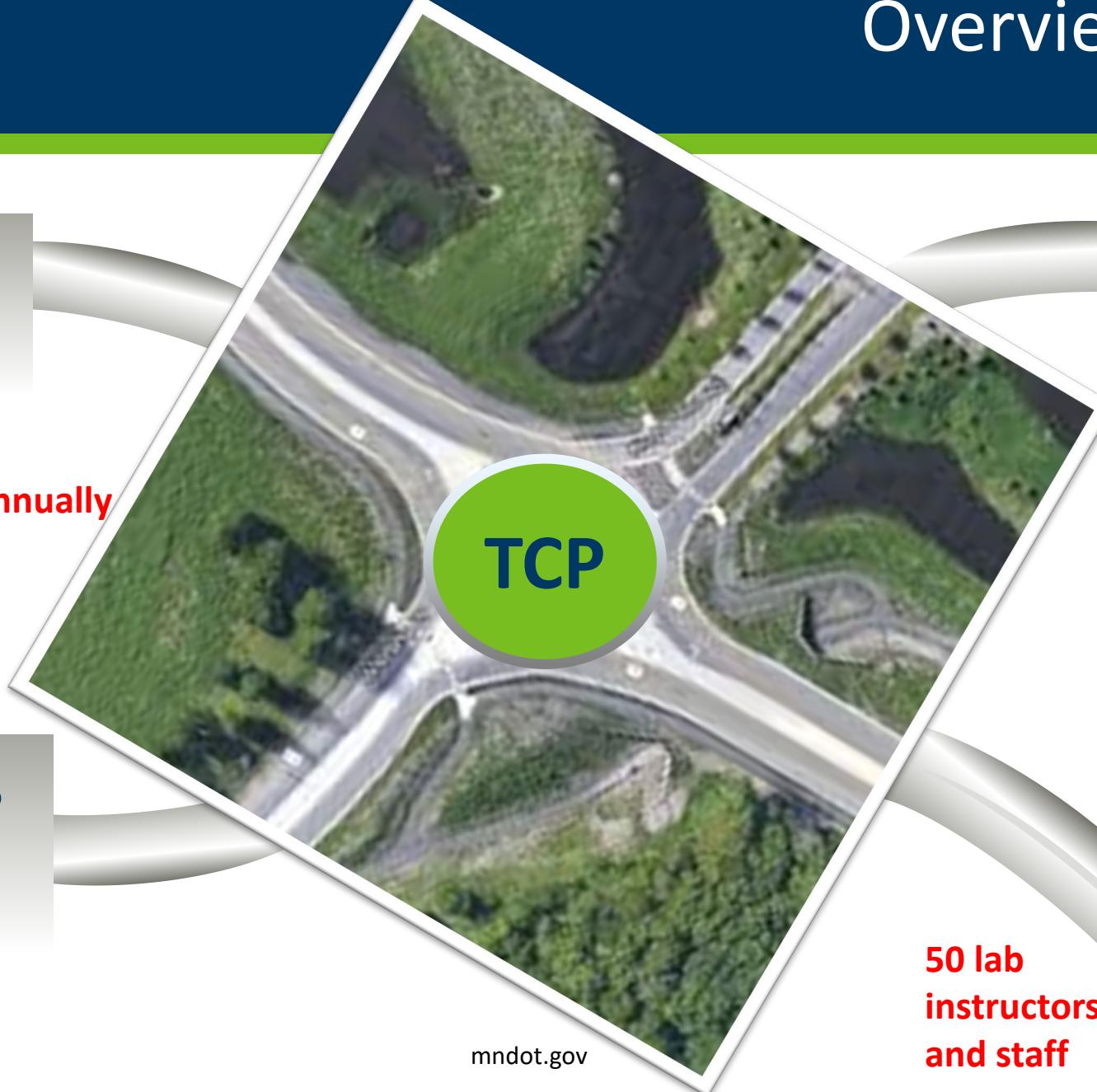
~ 3,000 trained and certified annually

~ 5,000 currently certified

Material Offices

- Concrete
- Bituminous
- Grading & Base
- Bridge Construction

09-Aug-22



TCP

mndot.gov

50 lab
instructors
and staff

Employers

- MnDOT Districts
- Contractors
- Testing Firms
- Counties
- Cities

26 classroom instructors

- MnDOT
- Contractors
- Retirees

Partners

- Colleges
- Industry Associations
- Instructors
- MnDOT Districts
- FHWA
- M-TRAC



Technical Certification Program 2.0





EEE-IA* Data

* Acronym totally made up

**Certification
& Enrollment**

Salesforce & rST

**Course
Evaluations**

Survey Monkey

Exams

Gauge by Test.com
← Salesforce →

**Independent
Assurance**

AASHTOware

Excel



How many people are certified as concrete plant testers?

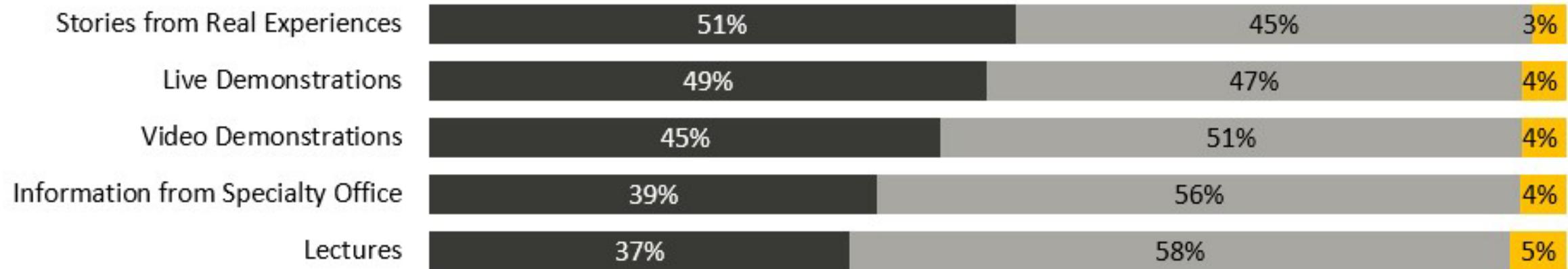
Table: Number of CPT Certified People, by District and Year (*district data unverified*)

Certification Expiration	MnDOT District												Total
	D?	1	2	3	4	6	7	8	CO	M			
2023	6	27	24	36	19	31	22	17	3	74	259		
2024	2	21	28	29	19	32	22	20	1	66	240		
2025	11	27	24	25	8	27	23	12	0	72	229		
2026	26	24	28	24	29	50	24	27	1	81	314		
2027	50	30	20	22	14	30	22	27	3	54	272		
Total	95	129	124	136	89	170	113	103	8	347	1,314		
2022	3	14	15	17	21	15	11	13	2	41	152		

What are seen as the most helpful instructional strategies?

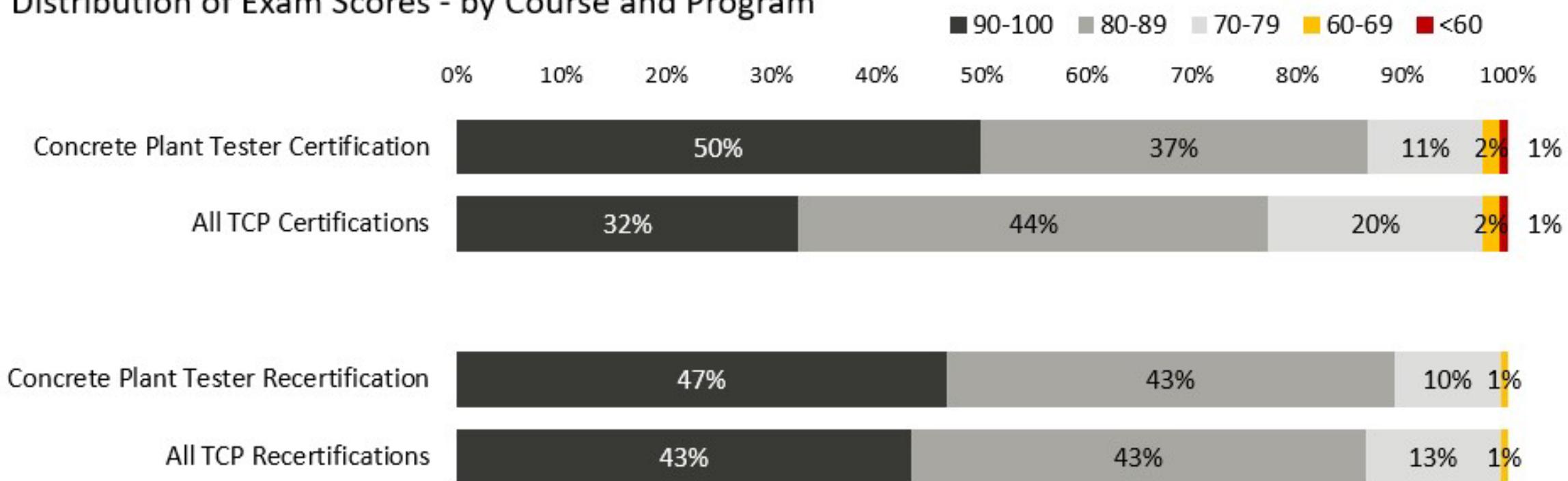
Teaching Strategies - All TCP Certifications

■ Very helpful ■ Helpful ■ Not helpful



How hard was a particular exam for people?

Distribution of Exam Scores - by Course and Program



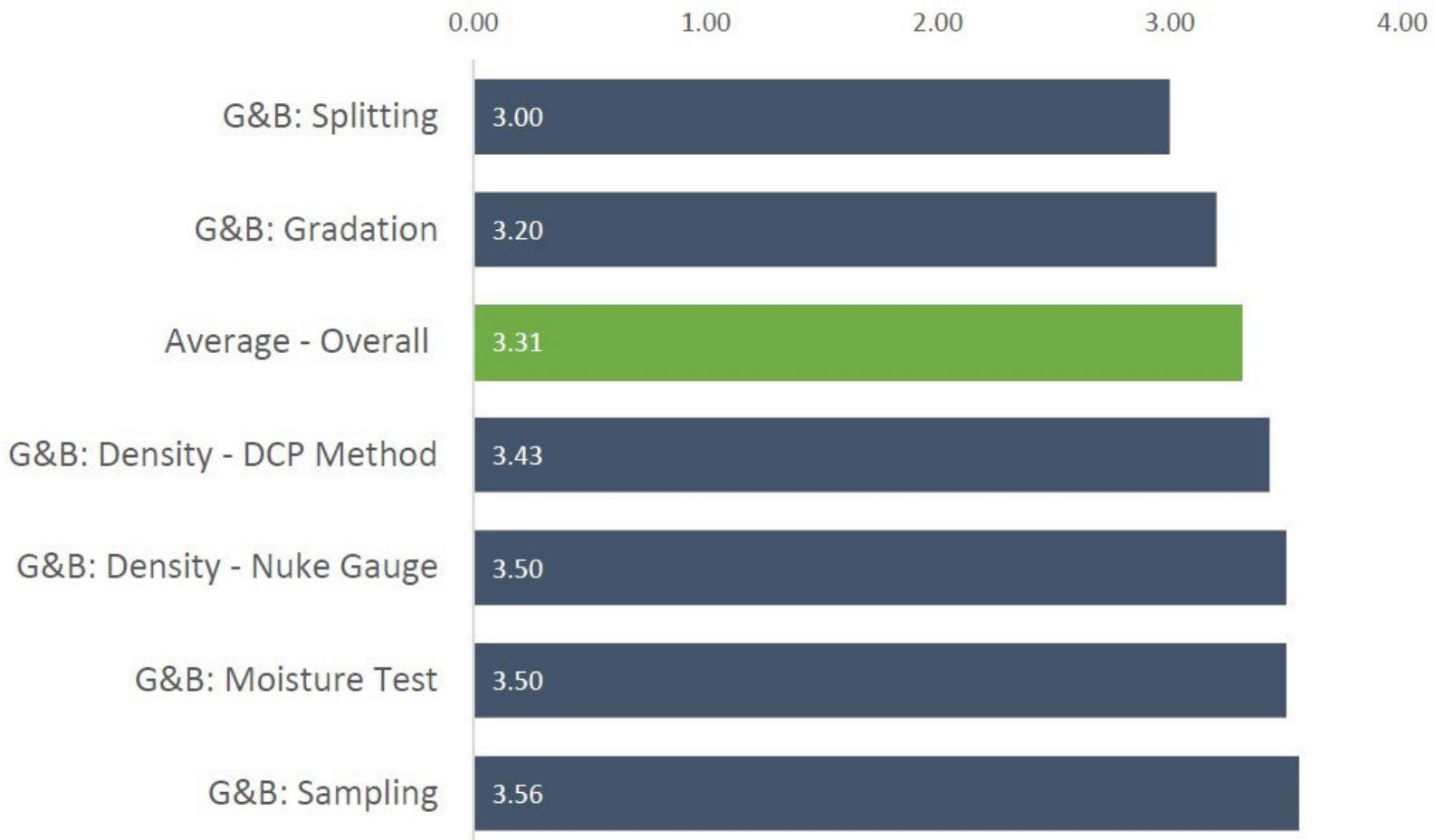


Which test procedures are technicians struggling with in the field?

The Test Procedure was ...

- 4 Complete and correct, done independently**
- 3 Complete and correct, done with reminders**
- 2 Complete and correct, done with coaching**
- 1 Incomplete or Incorrect (Fails review)**

IA Procedure Review - Average Scale Score - Pilot Data 2021



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