



# MnDOT's Technical Certification Program @ M-TRAC 2022

## Using EEE-IA Data to Drive Change

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# MnDOT Technical Certification Program



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09-Aug-22



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# 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

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## Employers

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

26 classroom instructors

- MnDOT
- Contractors
- Retirees

## Partners

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

50 lab  
instructors  
and staff

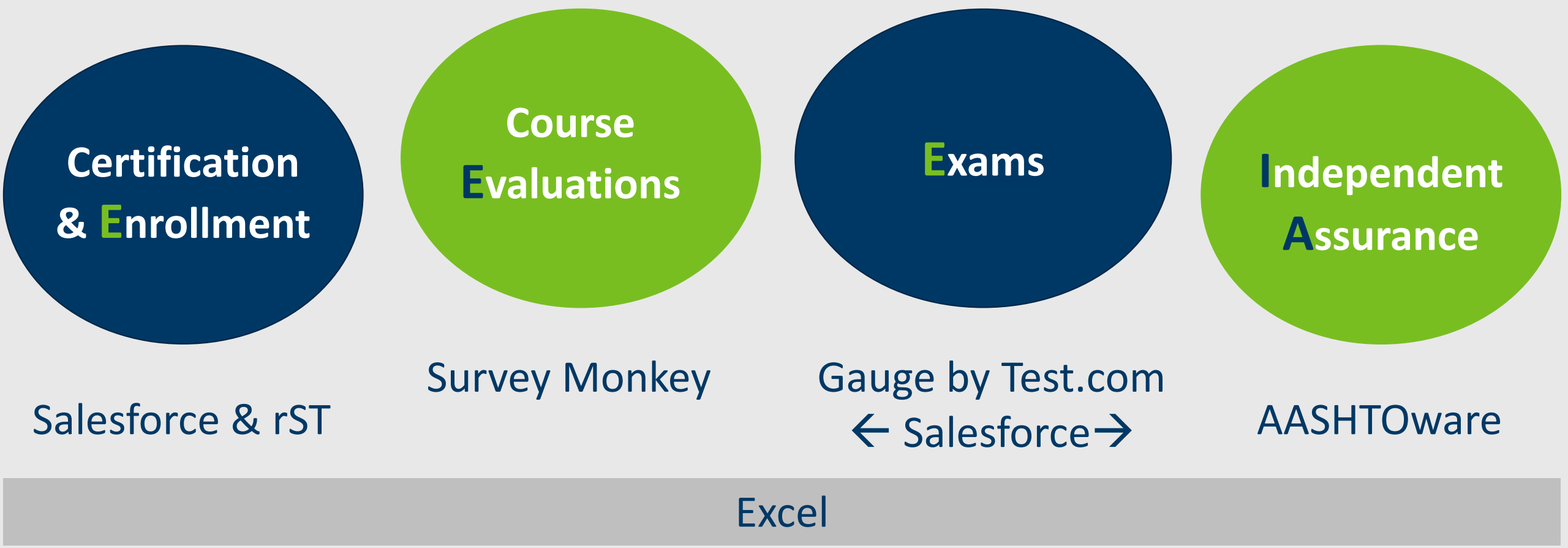




## Technical Certification Program 2.0



\* Acronym totally made up

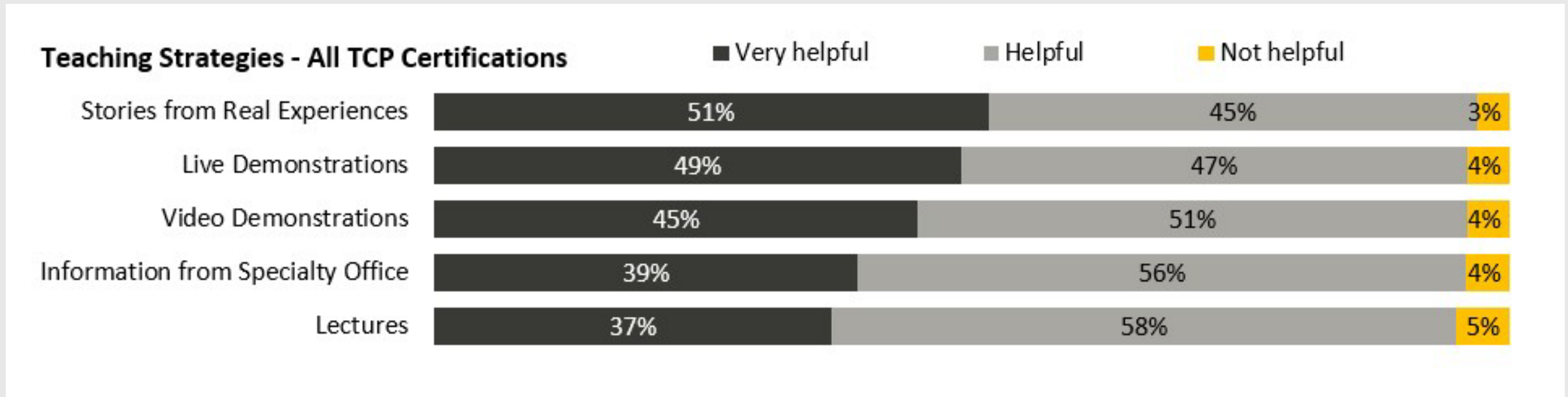


# How many people are certified as concrete plant testers?

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
<b>Total</b>	<b>95</b>	<b>129</b>	<b>124</b>	<b>136</b>	<b>89</b>	<b>170</b>	<b>113</b>	<b>103</b>	<b>8</b>	<b>347</b>	<b>1,314</b>
*2022*	3	14	15	17	21	15	11	13	2	41	152

# What are seen as the most helpful instructional strategies?



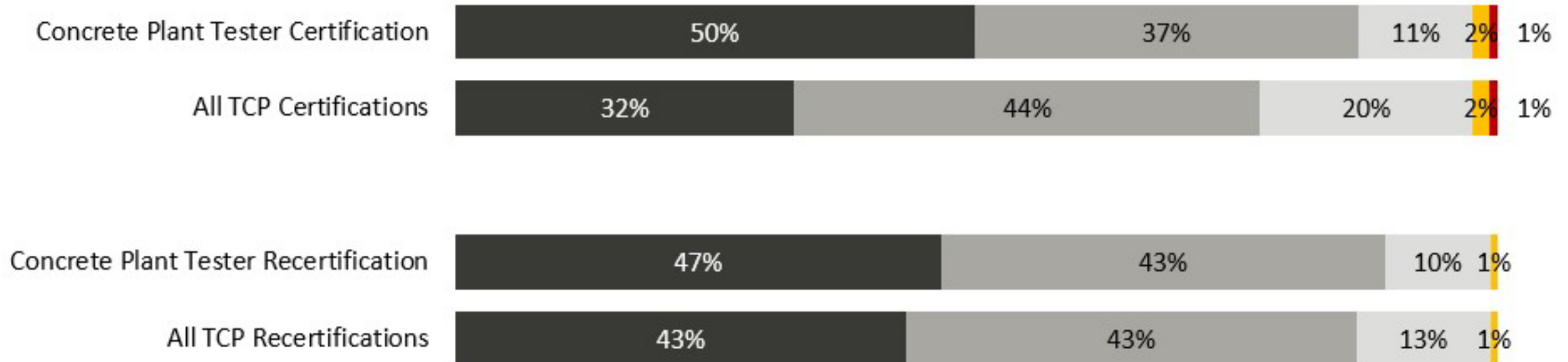


# How hard was a particular exam for people?

Distribution of Exam Scores - by Course and Program

■ 90-100 ■ 80-89 ■ 70-79 ■ 60-69 ■ <60

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%



# 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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