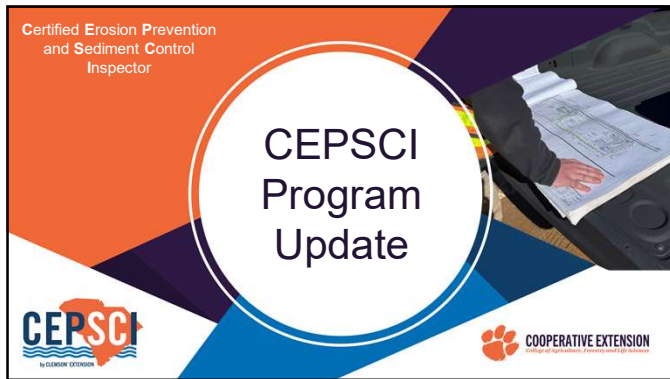


The information provided here is for informational and educational purposes and current as of the date of publication. The information is not a substitute for legal advice and does not necessarily reflect the opinion or policy position of the Municipal Association of South Carolina. Consult your attorney for advice concerning specific situations.









COOPERATIVE EXTENSION
College of Agriculture, Forestry and Life Sciences

Newest CEPSCI Team Member

- Lead third-party E&SC Inspector for MD/DE/NOVA region.
 - Performed 2000+ inspections
 - Responsible for training new inspectors
- Level II State Inspector for NCDEQ.
 - Erosion and Sediment Control
 - Industrial Stormwater
 - Dam Safety
 - Mining






COOPERATIVE EXTENSION
College of Agriculture, Forestry and Life Sciences

Newest CEPSCI Team Member

- Lead Inspector for numerous enforcement sites.
 - Notice of Violations
 - Stop Work Order
 - Injunctions
 - Litigation & Case Settlement
- Local Program & DOT E&SC auditor.






COOPERATIVE EXTENSION
College of Agriculture, Forestry and Life Sciences

Program Contributional Goals

- Providing a "Practitioner Perspective"
- New Training Modules
 - Introduction To Drone Use In Erosion Prevention and Sediment Control Inspecting
 - Clean Water Act Permitting Structure and Compliance
- Adding online resources
 - Fresh lecture material/exam questions
 - Updated inspector material
- Assisting with CEPSCI program refinement





Certified Erosion Prevention & Sediment Control Inspector

- Provides compliance inspector certification or recertification to individuals
- Ensures inspectors have fundamental understanding of CGP requirements
- Improves knowledge of proper BMPs
- Provides inspectors with techniques and strategies for working effectively







CEPSCI Course Development


- Planning Meetings
 - Division of Labor
 - Curriculum Development
 - Notebook/Class Materials
 - Public Relations and Web Presence
- Logistics (registration, venue, meals)
- Course Instruction
- Certification Exam Development and Facilitation
- Grading
- Notification



SC DOT Classes

- Implemented in 2016 after the first Transportation CGP was issued in 2012
- Targeted course for DOT employees, prime contractors and consultants
- Co-taught between CU and SC DOT staff
- Way to recognize and focus on:
 - Specific requirements related to Transportation CGP
 - Challenges associated with linear construction and road building
- Over 550 individuals have been certified through this course





Partner Roles




- Course Instruction
- Certification Testing
- Logistical Planning
- Recertification
- Web Platform Administration
- Database Management
- Program Evaluation



- Curriculum Development and Oversight
- Testing Material Review



- Curriculum Development
- Co-Instruction
- Pre-Course and Pre-Exam Tutoring
- Minority Business Promotion (DBE)



Statewide Impact

Education Efforts


- CEPSCI – 4 discrete programs

Outreach

- CEPSCI – 1200 annually

Economic Impacts*

- Average jobs supported – 1,252
- Average salaries / wages supported – \$68.2M




*US Department of Labor - Bureau of Labor Statistics
https://www.bls.gov/oes/current/oes_sc.htm#47-0000





COVID-19






COVID Pivot



- Still a need for certified inspectors
- Move to 100% web-based instruction and examination
- Providing opportunity for interaction between instructors and participants through live instruction
- Online modules for recertification classes (2020)
- 100% online through Oct. 2021
- Post pandemic classes have returned to 50/50 online and in-person







SC DOT Classes – Covid Pivot

- Pandemic-driven remote instruction to 7 SC DOT district offices
- Corresponding certification exams were proctored by resident engineers and stormwater staff
- Web-based instruction was live, providing opportunity for interaction between instructors and participants
- Allowed continuing focus on DOT-specific standards and specifications







Synchronous Online Delivery

Course Instruction via Zoom:

- Live presentations
- Interactive problem-solving exercises
- Break-out rooms
- Real-time Q&A
 - Chat features



Asynchronous Content Delivery - Recertification

Course Features via Canvas:

- Video lectures
 - Short and sweet!
- Content quizzes
- Updated resources for inspectors

Begin the Course
Modules
Technical Assistance

CEPSCI Recertification Evaluation Data: 2020-2022

Would you prefer CEPSCI online training over in-person training?


- Yes (38.3%)
- Yes, but make in-person training an option (43.3%)
- No (7.1%)
- No, but make online training an option (11.2%)

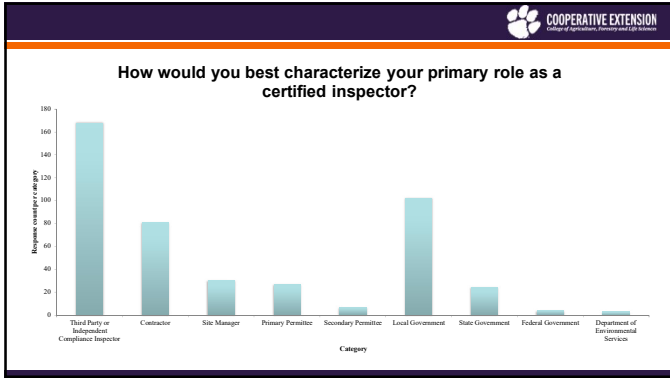
CEPSCI Summary Statistics (2015-2024)

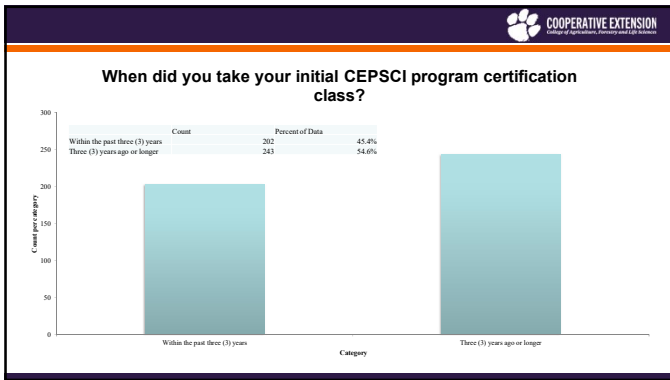
	2024	2023	2022	2021	2020	2019	2018	2017	2016	2015	Total
Class Participants	984	1289	1571	957	1021	1786	695	1123	1226	911	11,563
Initial Certification	274	307	303	37	150	616	630	644	496	737	4,194
Online Certification	307	370	391	594	357						2,019
SCDOT Certification	66	70	70	74	76	61	59	85	24		585
Recertification	326	521	799	248	376	1104	4	386	697	173	4,634

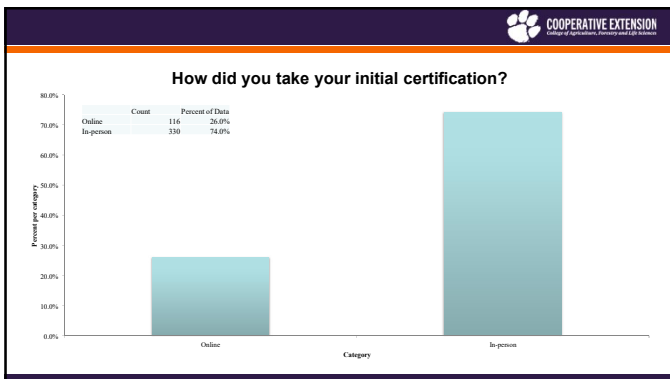
COOPERATIVE EXTENSION <small>College of Agriculture, Forestry and Life Sciences</small>											
CEPSCI 'Pass' Summary Statistics (2015-2024)											
	2024	2023	2022	2021	2020	2019	2018	2017	2016	2015	
In-Person Pass	83%	83%	79%	89%	92%	91%	86%	79%	88%	88%	
Online Pass	80%	81%	74%	83%	94%						

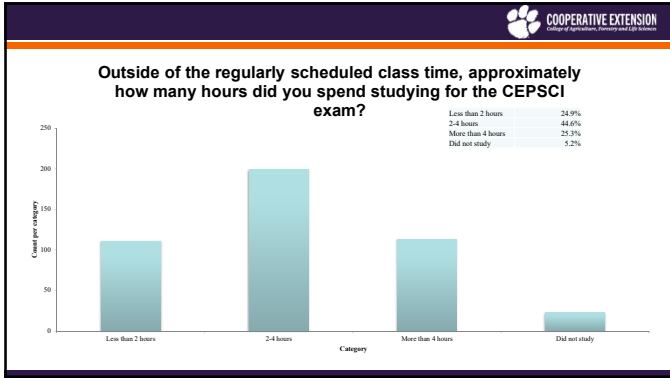
COOPERATIVE EXTENSION <small>College of Agriculture, Forestry and Life Sciences</small>	
Program Survey	
<u>CEPSCI Program Evaluation</u>	
<ul style="list-style-type: none">Two Surveys<ul style="list-style-type: none">InspectorsRegulatorsSurvey Goal:<ul style="list-style-type: none">Meeting Inspector NeedsAvenues for Program GrowthProgram Feedback	

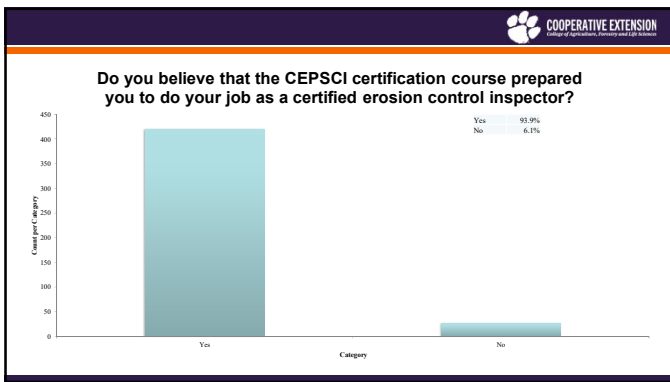
COOPERATIVE EXTENSION <small>College of Agriculture, Forestry and Life Sciences</small>	
Program Survey	
<ul style="list-style-type: none">Survey Layout.<ul style="list-style-type: none">10 – 12 QuestionsMultiple choice/write inMobile/desktop friendlyOption for anonymityResponse Goal of 10%.Open - mid December through JanuaryParticipation Prizes!!	

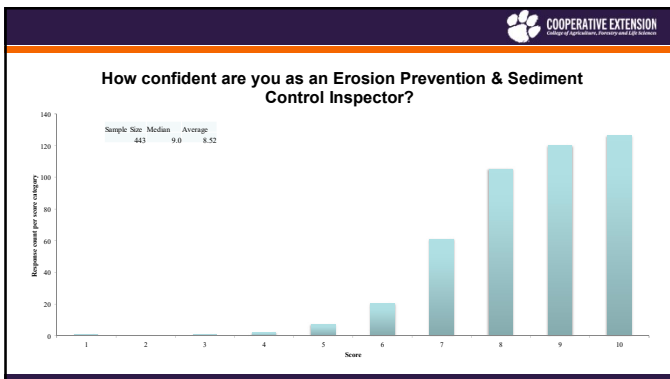


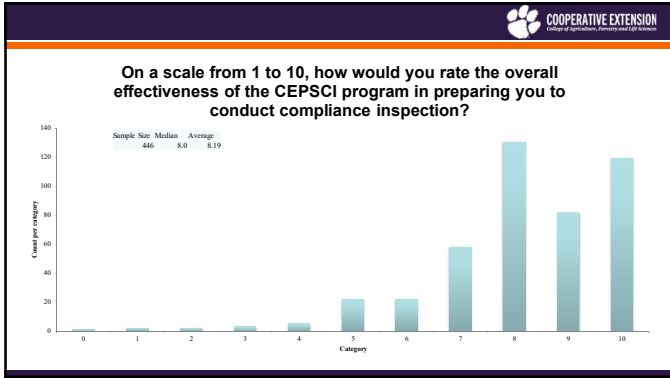


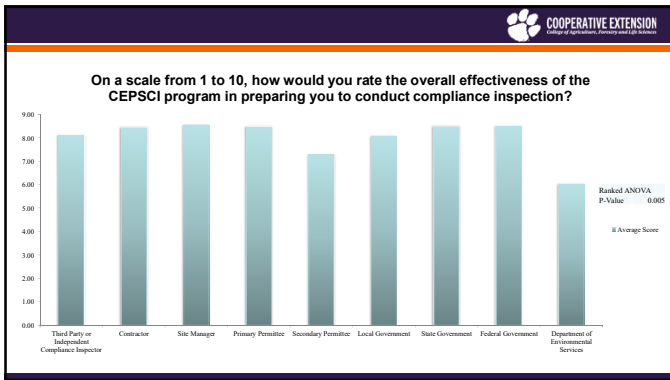




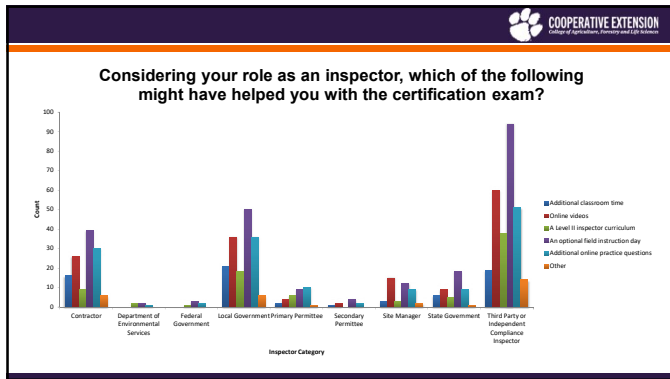












Common Write-in Responses

What additional content or resources could the CEPSCI Program provide that would help you do your job better?

Top categories included:

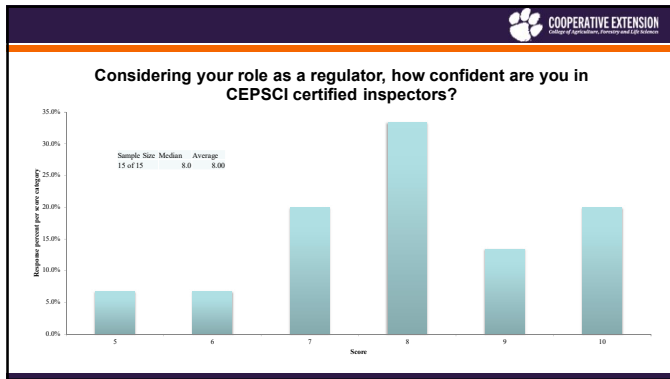
- Field instruction day
- Newsletters/Informational updates
- More study material
- More instructional time
- More plan review
- Videos

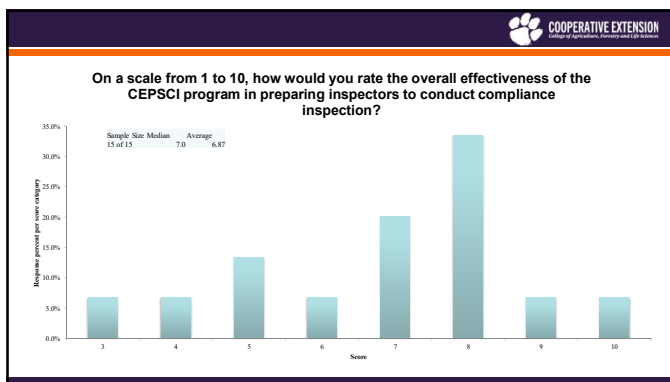
Common Write-in Responses

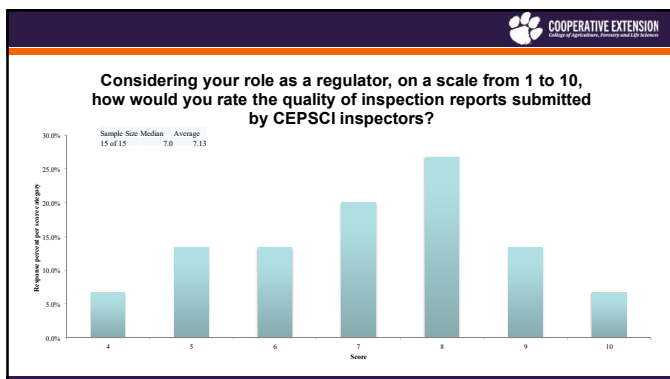
What is one area of the initial certification class you felt needed improvement?

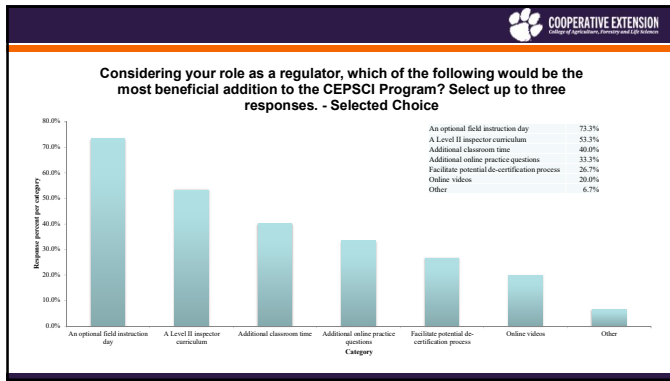
Top categories include:

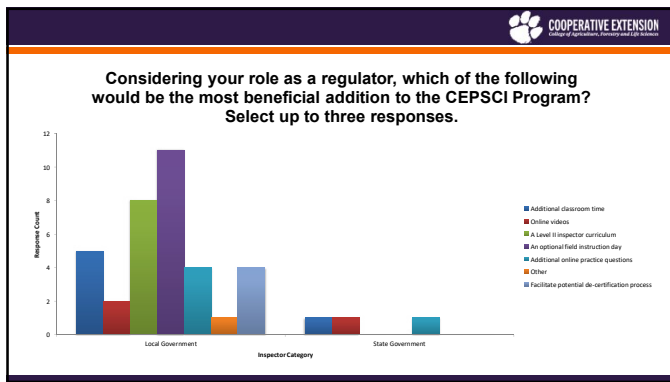
- Field instruction
- Physical materials/examples
- Updating presentation content
- Lecture time
- Updates to practice and exam questions

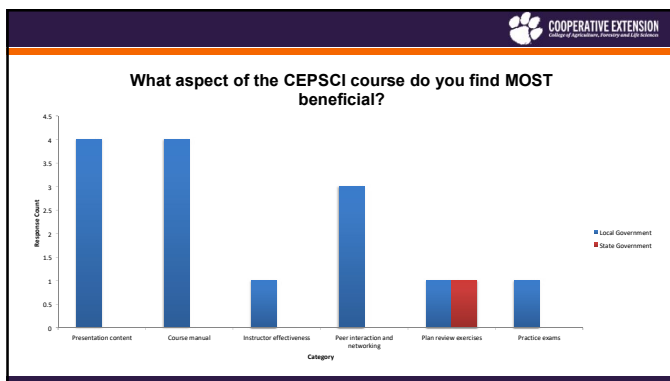

















Addressing Survey Findings

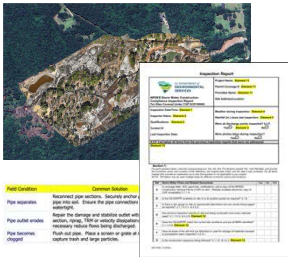
- Field Instruction Day
- Online Videos
- Additional Online Practice Questions
- Additional Classroom Time
- A Level II Curriculum
 - No action at this time





Field Instruction Day

- Virtual Field Inspection
 - Replace existing 'Field Inspection'
 - Drone imagery for site modeling
 - Plans for site incorporated in the 'Construction Plan Review' and exercise
 - Manipulate model for site inspection / including still imagery and video
 - Incorporate 'BMP Manual' troubleshooting section into presentation
 - Completion of DES updated compliance inspection form





Online Videos


Incorporate videos into lecture

- BMP presentations
 - Description
 - Installation
 - Time-lapse footage
- Inspection
 - Valuable tool for site analysis and discussion

Online


- Added lectures
- Additional resources for new BMPs
- Canvas

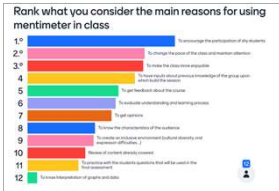





Additional Online Practice Questions

- Additional practice questions
 - 'Mentimeter' questions
 - Questions reinforce a point or fact
 - Questions added to manual








Additional Classroom Time

- Considerations for 2nd day of instruction
 - Major change after 20 years
 - 1st day, content driven
 - 2nd day, interactive exercises
 - Certification exam after lunch, 2nd day
 - Certification exam – open book
- Online
 - Additional required asynchronous instruction



Certified Extension Professional and Extension Content Training

Agenda

8:00 - 8:30 AM: Check-In / Sign-In / Break / Refreshments

8:30 - 12:00 PM: Registration / Check-In / Refreshments / Registration / Check-In / Refreshments


12:00 - 1:00 PM: Lunch / Break / Refreshments

1:00 - 2:00 PM: Session 1 / Break / Refreshments

2:00 - 3:00 PM: Session 2 / Break / Refreshments


3:00 - 4:00 PM: Session 3 / Break / Refreshments

4:00 - 5:00 PM: Session 4 / Break / Refreshments



Current Program Updates

- New definitions and acronym list
- Presentation photo updates (on-going)
- Presentation material updates (on-going)
- In-lecture practice quizzes using Menti
- Updates and restructuring of exam questions




15



Additional Program Updates

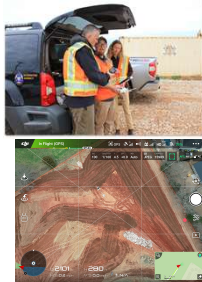
- MS4 Meetings
- Construction site drone 3D modeling
- Document on local regulations / MS4 community
- Updates to the DHEC/DES inspection form
- Establishing a reporting system for individuals falsifying compliance inspection reports
- Modifications to the CEPSCI class and exam format





Conclusions

- New personnel (Mack) catalyst as a driver for program development and changes
- COVID pivot has resulted in the successful implementation of an online-only curriculum
- New program material being created for 2025 - 2026
- Survey results will help guide future program direction





Questions ?

Acknowledgements
Cal Sawyer





South Carolina Department of TransportationCollege of Agriculture, Forestry and Life SciencesSC DEPARTMENT of ENVIRONMENTAL SERVICES
