

TCP ECI Certification Update

02/14/2024



Education and Certification

Be the leader in industry training and certification with a focus on quality, relevance, and accessibility.

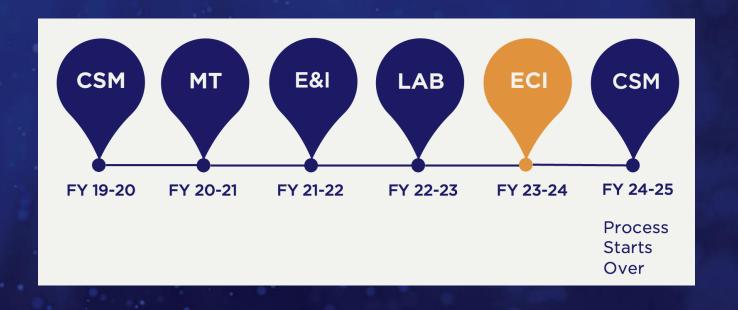
- a. **MAINTAIN** the certification program to reflect the latest advances in technology, regulations, and best practices.
- iDENTIFY and implement a variety of approaches to training to increase accessibility.
- c. IDENTIFY training needs and interests, and expand content to meet those needs.
- **d. EXPAND** and diversify the pool of subject matter experts, speakers, and trainers.

TACTIC 1:

Revalidate exams on a continuous, rotating schedule per best practice for certification programs

PERFORMANCE MEASURE FY 22-23:

ECI Grades 1-4 are completely revalidated, new exams released July 2023.



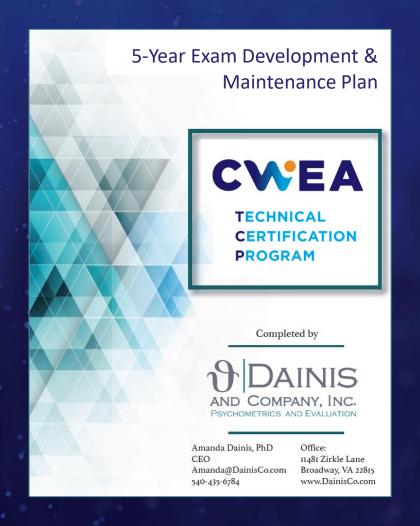


TACTIC 2:

Conduct annual monitoring and maintenance of exam performance to establish operational validity.

PERFORMANCE MEASURE FY 23-24:

Ensure monitoring reports for ECI are completed and reviewed by TCP Committee/SMEs.





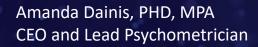
Psy·cho·met·rics

The science of measuring mental capacities and processes.

(aka Knowledge Measurement)









Michael Maurice, MPA COO and Project Manager



Exam Development Cycle

Job Task Analysis

Exam Publishing, Administration & Maintenance

Exam Blueprint & Specifications

Standard Setting

Item Writing & Review

Exam Assembly & Construction



ECI Update Progress



- Content outlines & Blueprints have been finalized
 - 30% response rate to validation survey
- Launched new Minimum
 Qualifications
 - Last day to apply under old MQs is Feb. 28th!
- 85% of the way to our item development goal
- Need more volunteers!



Specifications	Grade 1	Grade 2	Grade 3	Grade 4
Brief description of the Grade Level in relation to the job family.	Entry and basic working level.	Skilled or journey level.	Lead/advanced technical level.	Program manager level.
Level of knowledge, skill and ability within the job family, in relation to job tasks, including the taxonomic level of knowledge applied on the job.	Basic knowledge and ability, as needed to safely and effectively perform basic tasks. This includes: recall and recognition, comprehension, and application.	Knowledge and ability to safely and effectively accomplish most technical tasks in the job family. This includes: comprehension, application, and analysis.	Knowledge, skill and ability to safely and effectively accomplish and coordinate complex tasks. This includes: application, analysis and synthesis.	Knowledge, skill and ability to administer, coordinate and manage complex programs across vocations. This includes: analysis, synthesis, and evaluation.
Level of supervision received.	Receives direct supervision.	Receives limited supervision.	Receives general direction.	May receive broad direction.
Level of supervision exercised.	None.	May provide technical direction over other staff.	Will oversee and direct complex tasks performed by others.	Will coordinate program activities within or across vocations.
Level of training provided to other personnel.	None.	May train lower-level personnel.	May oversee a training program.	Designs and administers training program within the job family.
Use of tools.	Will recognize the basic tools of the job family.	Will be able to apply most of the tools used by those in the job family.	Will select tools for individuals and teams in relation to specific problems.	Manages and evaluates systems and facilities.
Problem solving and troubleshooting responsibilities.	Follows directions.	Troubleshoots and solves common problems without supervision.	Troubleshoots and solves complex problems.	Evaluates program effectiveness and takes corrective actions as needed.
Actions in relation to safety problems.	Recognizes unsafe conditions.	Recognizes and corrects unsafe conditions.	Anticipates and prevents unsafe conditions.	Designs and administers safety programs.
Actions in relation to standard operating procedures (S.O.P.s), laws and regulations.	Has the ability to follow S.O.P.s.	May assist in formulating and revising SOPs.	May oversee and formulates new S.O.P.s and ensure regulatory compliance.	Assures program compliance with laws and regulations.
Actions in relation to documentation of work activities.	Accurately completes records of work processes.	Accurately completes records of work processes and performs peer review of records.	Conducts audits of records of work processes for completeness, accuracy, and compliance, and recommends or takes necessary corrective action.	Responsible for quality assurance of program documentation, including management review and internal audits.

Content Domain	Weighting	# Items	
Domain 1: Systems Construction, Operations, Maintenance	29%	29	
Domain 2: Collection Systems Tools and Equipment	10%	10	
Domain 3: Plans, Maps, and As-Builts	16%	16	
Domain 4: Safety and Regulations	19%	19	
Domain 5: Administration of Collection Systems	22%	22	
Domain 6: Math for Collection Systems	4%	4	
TOTAL	100%	100	

Domain 4: Safety and Regulations

	n cancey and negations			
Sub-	Description	Number of KT	% Weight	# <u>of</u>
Domain		Statements	within Sub-	Items
			Domain	
4.1	Safety policies and procedures	5		
4.2	Confined space entry	5		
4.3	Underground Service Alert	2		
4.4	Traffic control practices and requirements	3		
4.5	Safety regulations	3		
4.6	Environmental protection regulations	4		

*0-2 items per KT statement.

Minimum Qualifications

- Heavier weight given to formal education.
- CE credit acceptable in lieu of supervisory experience

Designed to build a better pathway into the profession while ensuring competency.

Grade 1

 No experience required (1 year of experience in the vocation is recommended).

Grade 2

2 years of experience in the vocation, OR
 1 year with a bachelor's degree in a related field.

Grade 3

- ECI Grade 2 certification in good standing, and
- 4 years of experience in the vocation, OR
 - 3 years with an associate degree in a related field, OR
 - 2 years with a bachelor's degree in a related field.

Grade 4

- ECI Grade 3 certification in good standing, and
- 6 years of experience in the vocation OR
 - 5 years with associate degree in a related field OR
 - 4 years with a bachelor's degree in a related field, and
- 1 year of experience supervising others in a related field; OR proof of completion of a training course in management and supervision of at least 60 hours.

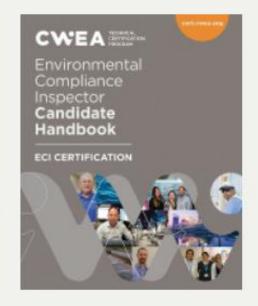


CWEA Technical Certification Program

CANDIDATE HANDBOOKS



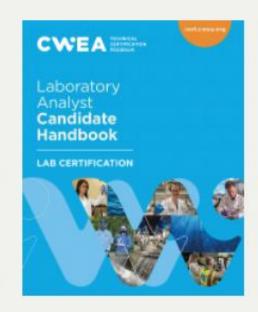
CSM Candidate Handbook



ECI Candidate Handbook



EIT Candidate Handbook



LAB Candidate Handbook



NEW! MT Candidate Handbook

Norah Duffy, CAE, ICE-CCP Director of Certification nduffy@cwea.org

510.382.7800 ext. 106



7677 Oakport Street Suite 1030 Oakland CA 94621 510.382.7800 | www.cwea.org