

CRMCA Concrete Testing Adherence Program

Overall Program Evaluation

OVERALL ASSESSMENT RESULTS		2015	2016	2017	Change in Current Year vs. Previous Year
Question 1 (percentage answering "yes")					
	Is the testing technician currently ACI Field I certified to test concrete?	85.7%	86.8%	82.6%	-4.2%
SQ1.2	What type of project/site is concrete testing observed at?				
	<i>Federal/State</i>	N/A	N/A	12%	--
	<i>Local/Municipality</i>	N/A	N/A	21%	--
	<i>Commercial/Industrial</i>	N/A	N/A	57%	--
	<i>Residential</i>	N/A	N/A	9%	--
	<i>Private</i>	N/A	N/A	0%	--
	<i>Other</i>	N/A	N/A	2%	--
Question 2 (percentage answering "yes")					
	concrete sampled in accordance with ASTM C172?	68.4%	53.6%	73.0%	19.4%
SQ2.1	Where was the sample(s) collected from?				
	<i>discharge</i>	N/A	N/A	45%	--
	<i>At point of placement; end of pump/belt</i>	N/A	N/A	7%	--
	<i>pump/belt</i>	N/A	N/A	46%	--
	<i>Other</i>	N/A	N/A	3%	--
SQ2.2	Which of the following was observed?				
	<i>Incorrect sample size</i>	N/A	N/A	4%	--
	<i>Exceeding sample time</i>	N/A	N/A	1%	--
	<i>Incorrect portions</i>	N/A	N/A	8%	--
	<i>Incorrect location</i>	N/A	N/A	3%	--
	<i>Other</i>	N/A	N/A	13%	--
Question 3 (percentage answering "yes")					
	Were physical property tests completed and strength specimens molded (if required to cast) in accordance with the appropriate ASTM procedure?	82.5%	83.4%	78.3%	-5.1%
SQ3.1	Which procedure was not followed? (percentage meeting requirements)				
	<i>Temperature</i>	N/A	N/A	97%	--
	<i>Slump</i>	90%	90%	89%	-1.7%
	<i>Air Content</i>	93%	94%	93%	-1.0%
	<i>Density (unit weight)</i>	90%	89%	96%	6.4%
	<i>Casting concrete strength specimens</i>	89%	90%	95%	5.4%
	<i>Time requirement</i>	93%	95%	97%	1.4%
Question 4 (percentage answering "yes")					
	Were the concrete specimens (if required to cast) stored in an initial curing environment following ASTM C31, section 10.1.2?	68.1%	65.7%	58.3%	-7.4%
SQ4.1	Which of the following was utilized?				
	<i>Nothing</i>	N/A	N/A	4%	--
	<i>Fabricated curing box or storage area</i>	N/A	N/A	24%	--
	<i>Water bath</i>	N/A	N/A	17%	--
	<i>Cooler or buckets</i>	N/A	N/A	26%	--
	<i>Insulation</i>	N/A	N/A	6%	--
	<i>Earthen burial</i>	N/A	N/A	0%	--
	<i>Other</i>	N/A	N/A	13%	--
SQ4.2	Which type of temperature monitoring device was utilized in the curing environment?				
	<i>Continuous record</i>	N/A	N/A	14%	--
	<i>Min/Max</i>	N/A	N/A	22%	--
	<i>Instant read only</i>	N/A	N/A	2%	--
	<i>Thermostatic control (heat)</i>	N/A	N/A	13%	--
	<i>Thermostatic control (cool)</i>	N/A	N/A	5%	--
	<i>Nothing</i>	N/A	N/A	41%	--

*N/A - no data collected due to questionnaire update. In 2017, the questionnaire was updated (question designation Q), where questions prior to 2017 (question designation PQ) are now included in the following: PQ1 = Q1, PQ2+PQ3+PQ10 = Q2, PQ4 thru PQ8 = Q3, and PQ9 = Q4. PQ9 and PQ10 were not included in the "scoring" evaluations prior to 2017.