

CCIL Update and What is New ?

by

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Introduction

Who CCIL is? what do we do?

- non-profit organization
- Safeguarding the Public and the environment
- Help protect quality, reliability and integrity of our road network, transportation system and our buildings
- Provide laboratory and Technician certification programs for the highway construction industry involved in asphalt, concrete, aggregate and soils materials testing

Introduction

Who CCIL is? what do we do?

- CCIL provides an independent 3rd. party assessment with no interest in the ramification of the results
- We have been in business for over 25 years. Started asphalt laboratory certification in Ontario and evolved to be a well respected Canadian National Organization with CCIL certified labs in all Provinces
- We have over 900 lab certifications, Nation-wide
- Sole Canadian provider of laboratory and technician certifications involved in testing highway construction materials in Canada

CCIL Certification Program Make-up Asphalt and Aggregate Materials

- The cornerstone of the program are Integrity and Confidentiality as per ISO 17025
- In addition, CCIL directive for a distinct effort of the CCIL staff to work with the labs to improve results/raise standards of testing

CCIL Certification Program Make-up Asphalt and Aggregate Materials

- CCIL Certification Programs are administered by **LOCAL** Admin Committees entrusted with establishing, and revising, the technical criteria for the core elements of the program in accordance with overall CCIL criteria
- Participation in the local Administration Committees by all *local Stakeholders*: testing labs, contractor labs, Provincial Government and Municipal Authorities.

CCIL Certification Program Make-up Asphalt, Aggregate and Soils

In general, the CCIL certification programs are in compliance with ISO 17025, with 5 main components:

- Laboratory Inspections
- Proficiency sample testing on annual basis
- Proficiency samples program follow-up
- Quality manual & Internal Audits
- Technician Certification

CCIL Certification Program Make-up Asphalt and Aggregate Materials

	<u>CCIL</u>	<u>Canadian Mix Exchange</u>	<u>ISO 17025</u>	<u>AASHTO/ AMRL</u>
Interlab Correlation	√	√	?	√
Correlation Follow up	√	-	-	?
Lab Audits	√	-	√	√
Quality System	√	-	√	√
Technician Certificate	√	-	-	√

CCIL Certification Programs Overview, 2018

- Asphalt and Aggregate certified laboratories in AB, BC, MB, NB, NL, NS, ON, SK and YT
- Total number of Asphalt laboratories..... 235
- Total number of Aggregate laboratories..... 360
- Concrete certified laboratories nation-wide, in all provinces as well as in the NW Territories
- Total number of Concrete laboratories..... 340
- Over 5000 certified technicians in HMA, Agg & Concrete

CCIL Certification Programs Overview, 2018

This year, once again a record number of CCIL laboratories in both Eastern and Western Canada

- 388 CCIL certifications in Western Canada; 117 Aggregate and 92 Asphalt certifications plus 179 in Concrete

CCIL Certification Program; %AC – Ignition Correlation Results

	2008	2012	2016	2018
Mean, BC	5.11	5.11	5.08	5.09
Mean, ON	5.03	5.10	5.08	5.06
SD, BC	0.17	0.12	0.12	0.16
SD, ON	0.10	0.10	0.11	0.16

CCIL Certification Program Results

- Results from AB, BC and ON confirm significant improvements in test result variations after lab certification
- ON, BC and AB reported significant reductions in the number of contract disputes after introduction of lab certification.

Asphalt and Aggregate Laboratory Certification in Canada

- Ontario requires that QA testing on the MTO projects to be done by certified laboratories
- BC, Mix design and referee testing on the BC MOT projects must be done by a certified laboratory.
- CCIL certification recognized in the B.C. Municipal projects, in B.C. Parks and in B.C. Hydro Projects

Asphalt and Aggregate Laboratory certification in Canada

- In AB, SK and NS all Mix Designs for Provincial Transportation projects must be done by certified laboratories
- SK all QC testing on the Ministry's projects must be done by certified laboratories
- In NS, NB lab certification has recently been introduced and is being widely embraced.

What is new 2015-2018

- Reduction in annual certification fees in all programs
- Completed development and implementation of online certification applications, proficiency test analysis, automated correlation reports and an interface program to transfer the MTO Aggregate proficiency results into our automated system
- Completed automation of Asphalt and aggregate lab inspections and lab reply documents on your lab portal

What is new 2015-2018

- Developed an automated asphalt and aggregate technician data base as well as automated technician re-certification reminders
- Developed and implemented an automated application for the concrete certification program
- Developed and implemented new procedures for Suspension, Withdrawal, Appeals, Disputes and handling complaints for the Aggregate and asphalt certification programs

What is new 2015-2018

- Updating Lab Certification Docs LC 101 & LC 102
- Currently Developing an automated concrete lab audit system and following this will be developing a concrete technicians data base
- Developing an automated system for supplying ASTM Standards to your lab through the CCIL portal
- Hired a 3rd Western Canada inspector stationed in Vancouver and a new inspector for Eastern Canada
- Stationed in Saint John, NB

Summary Lab certification Benefits

Regular lab auditing & participation in Prof. Tests

- Ensures up-to-date & uniform test procedures
- Ensures testing is by qualified and trained staff
- Ensures equipment are calibrated and maintained
- Encourage technician training/certification
- Improves standard of excellence in testing
- Increases confidence in test results
- Reduces test variations and
- Reduces potential for job interruptions and disputes

Lab Certification is a win-win to all

- Regulators: the assurance that regulation is supported by valid test data
- Owners: the assurance that the project is built in accordance with the specified test requirements
- Contractors, producers, consultants & testing laboratories: improved confidence in testing results and reduced potential for job interruptions, construction delays and contract disputes

Thank You-CCIL Certification Team

(missing: D. Manning, A Virani and G. Leon)



*CCIL Laboratory and Technician
Certification Programs Update and
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Thank you

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Questions?