What you need to know for your upcoming CEAB accreditation visit June 6, 2018

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Learning objectives

By the end of this session, you will be able to:

- Describe the CEAB accreditation processes and criteria at a high-level.
- 2. Discuss approaches to demonstrating compliance with the CEAB accreditation criteria.
- 3. Implement a plan to prepare to receive a CEAB site visit.

What are your objectives?

Outline

CEAB Recent Introductions accreditation changes A greater focus on Group work Wrap-up GA/CI process

Your handouts







Raise your hand if you are with a:

- **►** Institution
- ➤ Regulator
- **≻**Other





Raise your hand if you are a:

- ➤ Administrator
- ➤ Dean/associate dean
- ➤ Faculty
- >Student





Raise your hand if you are directly involved in the GA/CI processes at your program or institution.

CEAB accreditation



The Accreditation Board

Established in

1965

 Accredits undergraduate engineering educational programs Volunteer members are

17 P.Eng./ing.

- Deans, former deans, senior faculty members, and industry representatives
- Most members from academia have also worked in industry
- 35% of members are women, 40% of members are bilingual

What does the Accreditation Board do?

The visiting team



Visiting team not responsible for accreditation decisions





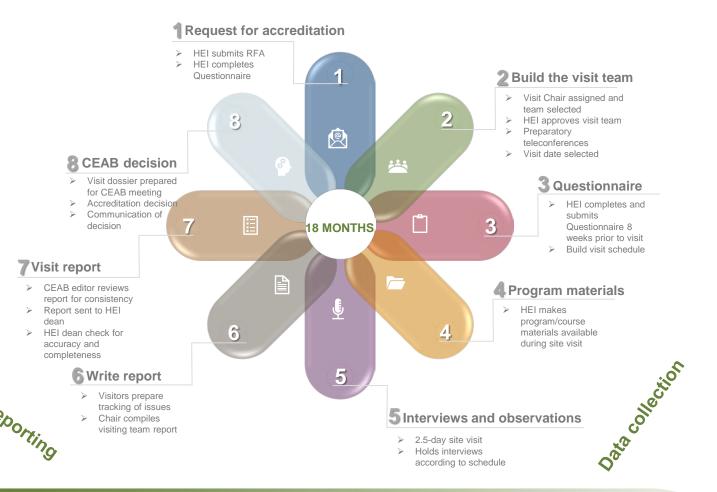




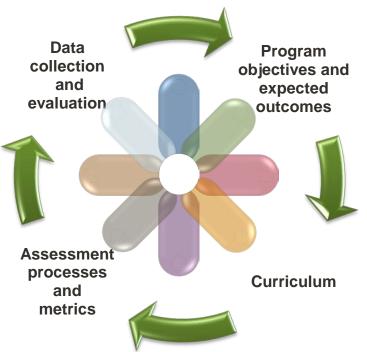
CEAB accreditation decision

How do we do it?

The accreditation process:



Accreditation and continual improvement



- Accreditation is based on a snapshot in time of a given program
- The accreditation process has a definitive start and end
- HEIs must continue to continually improve for the duration of their accreditation period

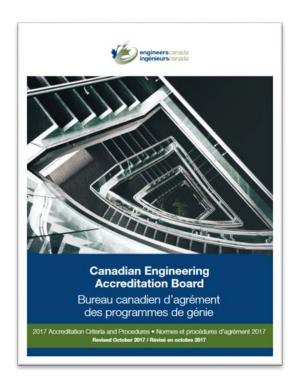
Plan. Do. Check. Act

Accreditation criteria and procedures

The processes of accreditation place emphasis on the quality of the:

- Students
- Curriculum
- Academic staff/support staff
- Facilities and resources

Reminder: The onus is on the HEI to demonstrate compliance with the criteria.



Common issues identified

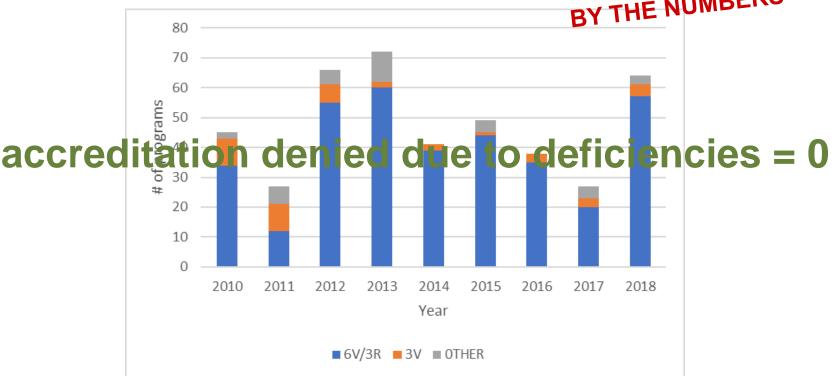
Program environment

- Inadequate lab facilities and insufficient space (3.5.1.2)
- Inadequate number of full-time faculty (3.5.2.1)

Curriculum content and quality

- Insufficient introduction to a culture of occupational health and safety (3.4.2)
- AU adjustments to:
 - natural science (3.4.3.2)
 - engineering science (3.4.4.1)
 - engineering design (3.4.4.3)

CEAB visit decisions 2010-2018 BY THE NUMBERS



Accreditation activities BY THE NUMBERS

- 279 accredited programs
- 44 HEIs in Canada
- 11 Substantially equivalent programs
- 2 HEIs outside of Canada



Recent relevant changes-

To criteria, procedures, tools



Appendices

Appendix 7: Interpretive Statement on Significant Program Changes



 Not sure if the change is "significant"? The CEAB secretariat can provide guidance

Appendix 13 – Program Development Advisory Procedure

- Discussion with the CEAB secretariat, curriculum assessment by AB members or a informal visit
- Institutions developing new programs, new options, or making other changes to program delivery may make use of any of these voluntary advisory opportunities





Documentation changes

New guidance on 3.2.3 in the **Cl assessment rubric**:

There must be a demonstration that the continual improvement process has led to consideration of specific actions corresponding to identifiable improvements in the program and/or its assessment process. Note, if the evidence suggests no change is warranted, then no change is necessary. This criterion does not apply to new programs.

A more efficient site visit schedule



• 2.5 days

- Sunday, Monday, Tuesday
- October-November existing programs
- January-February new programs

3 Objectives:

- Validate and seek clarification of program details based on a review of the institution's completed Questionnaire.
- Gather information about the program(s) and assess the extent to which Accreditation Board criteria are met.
- Evaluate the measures taken to resolve issues raised previously by the Accreditation Board regarding the program (if applicable).

Example of visit schedule - Engineers Canada website

Visiting team chair and HEI Meet and greet



February before a scheduled visit

➤ Institutions receiving visits 2019/2020 are invited to Ottawa February, 2019

The beginning of a relationship between the HEI and visiting team chair – a relationship which will continue for the better part of one year

- Visiting team chair and designated official in regular contact leading up to the visit
- A goal: by the time the team arrives onsite, the dean/designated official has a good understanding of what the potential issues are

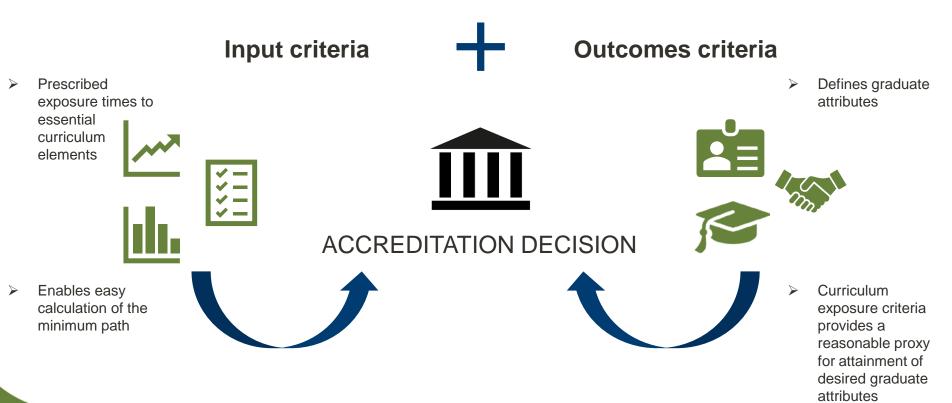
Are there other ways we could improve communication between visiting teams and HEIs?

Input and outcomes criteria -

A greater focus on GA/CI processes



Input and outcomes criteria: Why both?



Toward a greater focus on process

On February 10, 2018 the CEAB agreed that outcomes assessments should place a greater focus on GA/CI *processes*.

The use of **both** input and outcomes assessments is desired by many regulators.



Having **both** input and outcomes assessment criteria



greater focus on GA/CI processes and less focus on assessment results.



HEIs still need to demonstrate continuous program improvement.

HEIs are in the best position to determine GA compliance and to implement required program improvements

GA/CI elements

Graduate attributes:

- 3.1.1 Organization and engagement
- 3.1.2 Curriculum maps
- 3.1.3 Indicators
- 3.1.4 Assessment tools
- 3.1.5 Assessment results

Continual improvement:

- 3.2.1 Improvement process
- 3.2.2 Stakeholder engagement
- 3.2.3 Improvement actions

What is the AB looking for? An example:

AB criteria	Process elements			
3.1.1	Assessment cycle rationale			
Organization &	GA training on AB requirements			
engagement	 Assessment element evaluation 			
	processes			
	 Data analysis and validation 			
	processes			
	 Proposed change processes 			

Discussion

Individual reflection

Jot down your thoughts on your worksheet

Small group discussion

Share your thoughts with your table (assign a scribe and a reporter)

Larger group discussion

Build on what the group before you shared. What did your group discuss? What else can you add?

- 1. What are the positive and negative impacts of a greater focus on GA/CI processes vs. the focus on data collection and data analysis?
- 2. Refer to your handout. Does your institution already have these processes in place? Which ones do you have? What else do you do? How difficult would it be to introduce the processes if they are not already in place?

Sustainable indicator selection



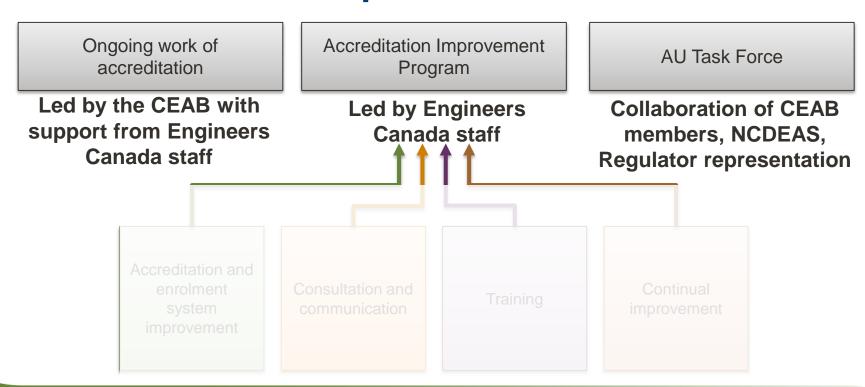


SCHULICH School of Engineering	Indicator	Course learning outcome (sab-indicator)	Rationale for course learning outcome	Assessment tool
	6.4	Work effectively in teams. (ENGG 200, D)	Teamwork skill can be improved by reflecting on their teamwork experience, and it is a way to reduce repeated	Individual Teamwork Reflection Project 4 Students are asked to write a reflection report for teamwork
3.1.6 Individual and team work			mistakes. Reflection also includes how they compare	conflicts experienced and
An ability to work effectively as a member and leader in teams, preferably in a multi-disciplinary	ı setting.		teamwork training in the actual project practice.	
 6.1 Identify the stages of team formation and lifecycle as well as the roles and responsibilit members. 6.2 Evaluate team effectiveness and plan for improvements. 6.3 Execute the planning and facilitation of effective meetings. 6.4 Practice conflict negotiation and resolution. 6.5 Assume responsibility for own work and participate equitably. 6.6 Exercise initiative and contribute to team goal setting. 6.7 Demonstrate capacity for initiative and technical or team leadership while respecting other's roles. 	6.5 6.6 6.7	Coaching Tool (IACT) Survey. (INTE 513, A)	have to work as an individual and in teams. IACT survey provides an ideal sub-indicator of performance in this GA.	Industry supervisor questionnaire. Three evenly spaced supervisor surveys conducted over internship, where nine questions probed students' performance in this attribute using a Likert scale.
	6.1 6.2 6.5	items in areas including: attitudes towards teams.	created and validated based on teamwork literature, and specifically tailored for the CEAB attribute.	Questions were rated on a five item Likert-scale (strongly disagree to strongly agree). Student survey responses were analyzed.

What's next?



Understanding Engineers Canada's accreditation portfolio



Accreditation Improvement Program









Data management system for accreditation and enrolment

Consultation and communication

Training

Continual improvement

AU Task Force Report

Consultations on 2 recommendations:

- 1. Interpretive statement for criterion 3.4.1.4 on the "Learning Unit".
- 2. Preliminary measure of a Learning Unit as equivalent to 2.5 hours of learning time.

Consultation report to be published this summer to be considered at the Fall meeting of the CEAB, EC Board.

engineers const AU Task Force report to Engineers Canada

www.engineerscanada.ca/accreditation/consultation-AU-task-force

Criteria evolution



 Linking AUs with graduate attributes (recommendation #4)

Non-academic student support a growing need

6

Wrap-up



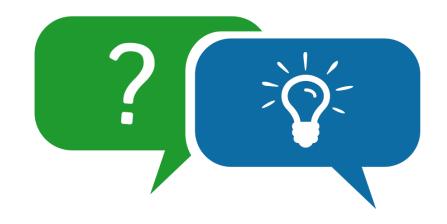
Learning objectives

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Take a moment to reflect on:

- 1. One thing you learned?
- 2. The first thing you will share when you return to the office?
- 3. What do you wish we covered but didn't?



Need help?



New programs – Optional "mock visit"



A team dedicated to accreditation



Accredited programs can access the training available to visitors – anytime!

Need 1:1 training? We can do that.

www.engineerscanada.ca/accreditation

Thank you

For more information:
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engineerscanada.ca

