

## SECTION SIX: RELATED OCCUPATIONS

The summaries below are based on information from the Ontario Association of Certified Technologists and Technicians

**ACTIVITY:** Lecture, discussion & self-assessment

**TIME:** 30 min.

**LEARNING OUTCOME:** Participants will know what the requirements are for engineering technicians and technologists.

### DESCRIPTION:

- ❑ Review the material on **page 53** of the workbook.
- ❑ Explain that professions in the field of engineering/applied science technology are not regulated in Canada. Certification is voluntary and not required in order to work as a technician or technologist. However, certification for engineering/applied science technicians and technologists is offered in each province by provincial associations, and may be required by some employers.
- ❑ Explain that there three levels of certification for technicians and technologists
  - Certified Engineering Technologist (C.E.T)
  - Certified Technician (C.Tech)
  - Applied Science Technologist (A.Sc.T)
    - Has anyone applied for these types of positions?
    - What has their experience been?
    - How do people feel about possibly being underemployed?
    - How do people feel about changing their resume to de-emphasize the professional training & experience?

Instruct participants to use the OACETT licensing material in the Resource packages to complete the exercise on **pages 53-55**. These can also be obtained at <http://www.oacett.org>. Click Fact Sheet on Registration for New Canadians

**RELATED OCCUPATIONS:  
REGISTRATION- ANSWER KEY**

Using the registration information from OACETT, complete the following plan.

Based on the information provided, I believe I would be most suited to becoming an:

- Engineering Technician ( C.Tech)
- Engineering Technologist (C.E.T)
- Applied Science Technologist (A.Sc.T)

**Outline the requirements for the occupation you have chosen and indicate those that you believe you already possess and those that you would need to gain.**

**For C.E.T Certification**

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- Complete an application
- Have a diploma from a recognized program in engineering technology at a post-secondary educational institute or have passed advanced courses in technology or have earned certificates recognized by (The Institute of Engineering Technology of Ontario) IETO, OACETT's registration board
- Write and pass OACETT's Professional Practice Exam
- Write a Technology Report. The Technology Report assesses a candidate's ability to effectively examine and describe in detail engineering or applied science problem. Candidates will be able to select a topic appropriate to their experience and employment setting and which is related to their discipline of registration\_
- Be of good character, as verified by your references
- Have a minimum of two full years of experience in their engineering/applied science technology discipline. Applicants must also demonstrate a knowledge of the working language, and Canadian or Ontario Standards, Codes and Practices of the discipline in which registration is being sought. OACETT will review candidates' resumes, job descriptions, and references to ensure that they can apply the principles of engineering or applied science technology to the tasks required on-the-job

**For Certified Technician (C.Tech) / Applied Science Technologist (A.Sc.T)**

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- Complete an application
- Have a diploma from a recognized program in engineering technology at a post-secondary educational institute or have passed advanced courses in technology or have earned certificates recognized by (The Institute of Engineering Technology of Ontario) IETO, OACETT's registration board
- Write and pass OACETT's Professional Practice Exam
- Be of good character, as verified by your references
- Have a minimum of two full years of experience in their engineering/applied science technology discipline. Applicants must also demonstrate a knowledge of the working language, and Canadian or Ontario Standards, Codes and Practices of the discipline in which registration is being sought.

**RELATED OCCUPATIONS:  
REGISTRATION- ANSWER KEY**

What documents will you have to submit in order to have your credentials assessed?

- A photocopy of your birth certificate, passport or Canadian landed immigrant certificate.
- Official transcripts of your post-secondary education showing the subjects you studied and the marks you obtained. If you cannot arrange for your institute or college to provide an official transcript of subjects and marks, send a photocopy that has been notarized as a true copy. If the documents are not in English, you must also provide a notarized English translation prepared by a service that is certified by the Association of Translators and Interpreters of Ontario (ATIO)
- A resume and a detailed job description of your current position, stating your duties and responsibilities and the length of time you worked at the job. Each page must be verified and signed by your supervisor. References from three current or past supervisors that can attest to your job skills
- A non-refundable application fee of \$125 (Canadian). This fee is subject to change.
- In addition to your post-secondary training, you may submit copies of any industry-related courses or other courses related to engineering or applied science.
- Memberships in or courses taken through related associations should also be documented

Outline the **steps** you will need to follow to complete the registration process. List any fees you expect to pay for each step and indicate which steps, if any, you have already completed.

	STEPS	FEES	COMP?
1.	Contact OACETT and request registration application package. ■ Go to step 2		
2.	Complete and submit an application with all the supporting documentation ■ Go to step 3 or 4	\$135	
3.	If academic qualifications do not meet OACETT's, study certain subjects and/or pass technical exams as designated by OACETT ■ Go to step 4 or 5	\$395	
4.	If academic qualifications meet OACETT's standards write Professional Practice Exam(eligible to register as an Associate Member) ■ Go to Step 5 or 6	\$150 member. \$250 non-member.	
5.	If work experience requirements are not met, eligible to register as an Associate Member while gaining the required experience. ■ Go to step 6		
6.	If work experience requirements are met, submit Technical Report (for C.E.Ts only) ■ Go to step 7		
7.	If ethics and other requirements, as set by OACETT, are met obtain registration		

**RELATED OCCUPATIONS:  
REGISTRATION- ANSWER KEY**

**Estimate how much it will cost to complete the certification process:**

Assuming that all requirements are met, the minimum cost of completing the certification process will be \$285 (Based on 2003 fees, Check OACETT's site for current fees) Extra costs will incur if the applicant is required to write technical exams, requests a study manual for the Professional Practice Exam and/or admission counselling.

**Estimate how long it will take to complete the certification process:**

## RELATED OCCUPATIONS: SUMMARY

Many foreign-trained engineers who come to Canada choose to register as Engineering Technicians and Technologists, rather than go through the licensing process for professional engineering. Engineering Technicians and Technologists are normally graduates of at least a community college program and are registered with the Ontario Association of Engineering Technicians and Technologists.

There are benefits and drawbacks in choosing to become a Technician or Technologist:

### The Advantages

- You may qualify for a license quicker than you would for an engineering license (and it will cost less).
- Employment in these occupations is growing, partly because they are taking over from the work of engineers.

### The Disadvantages

- The pay is lower (The median salary, in 2002, for associate members and graduate technicians was \$46,000; for technicians with two or more years experience the median salary was \$57,200; for technologists: \$60,890)
- Once you are working as a technician or technologist, it will be difficult to gain the work experience you need to be gain your professional engineering license.

**RELATED OCCUPATIONS:  
REGISTRATION**

*Using the registration information from OACETT, complete the following plan.*

Based on the information provided, I believe I would be most suited to becoming an:

- Engineering Technician (C.Tech)
- Engineering Technologist (C.E.T.)
- Applied Science Technologist (A.Sc.T)

Outline the requirements for the occupation you have chosen and indicate those that you believe you already possess and those that you would need to gain.

Have    Need

<input type="checkbox"/>	<input type="checkbox"/>	_____
<input type="checkbox"/>	<input type="checkbox"/>	_____
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<input type="checkbox"/>	<input type="checkbox"/>	_____

What documents will you have to submit in order to have your credentials assessed?

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### RELATED OCCUPATIONS: REGISTRATION

Outline the **steps** you will need to follow to complete the registration process. List any fees you expect to pay for each step and indicate which steps, if any, you have already completed.

	STEPS	FEES	COMPLETED?
1.			
2.			
3.			
4.			
5.			
6.			
7.			

Estimate how much it will cost you to complete the licensing process: \$\_\_\_\_\_.

Estimate how long it will take you to complete the licensing process: \_\_\_\_\_.