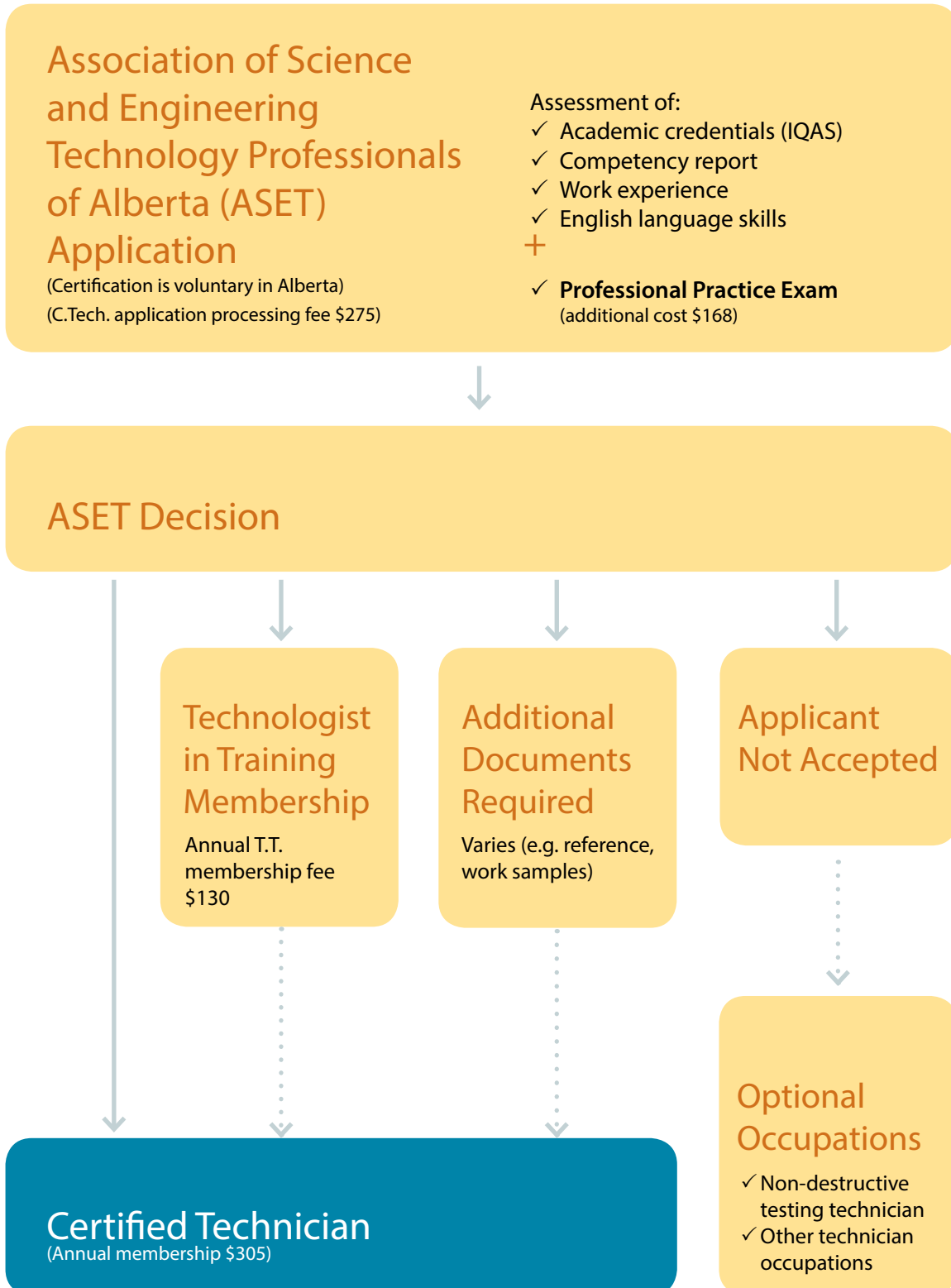


# Mechanical Engineering Technician

## Certification Process



## Mechanical Engineering Technician

### Certification Process

#### Description of Occupation

Mechanical Engineering Technicians maintain and modify various machines, tools, products and mechanical equipment. They collect technical data for design, fabrication, machine optimization, cost estimates, and quality control. Working under supervision, they analyze data and perform design of mechanical components. Mechanical engineering technicians perform installation, repair, routine maintenance, troubleshooting, and commissioning of mechanical components and systems to ensure their reliability. In addition, they contribute to productivity improvement initiatives in organizations. They may work on their own or under the supervision of licensed professionals.

In general they: assist in preparing conventional and computer-assisted design (CAD) engineering designs, drawings and specifications; carry out mechanical tests; help with the design of moulds, tools, dies, jigs and fixtures for use in manufacturing and assist with inspection of mechanical installations and construction projects. They also install, repair and maintain machinery or equipment.

#### Obtaining Certification in Alberta

Certification with the Association of Science and Engineering Technology Professionals of Alberta (ASET) is voluntary. However, many Alberta employers prefer to hire Mechanical Engineering Technicians who are certified with ASET. Holding ASET certification can give you an advantage when looking for a job or trying to advance your career. ASET has various levels of certification. ASET members can move from level to level over the course of their careers.

Internationally educated Mechanical Engineering Technicians can apply to ASET for the Certified Technician (C.Tech.) designation if:

- Your academic program is the equivalent to a one-year technician diploma program in Canada or higher as verified by a recognized international credential assessment (International Qualifications Assessment Service (IQAS) or equivalent)
- You have a minimum of two (2) years of relevant mechanical engineering technology work experience as verified by your application documentation

If you don't meet these requirements, you may qualify for registration as a Technician/Technologist-in- Training (T.T.) while you work toward the C.Tech. designation.

Complete the **online application form** and provide detailed and accurate answers to all questions. An original or notarized copy of your international credential assessment must be mailed to ASET at this address:

Association of Science and Engineering Technology Professionals of Alberta  
1600, 9888 Jasper Ave  
Edmonton, Alberta T5J 5C6

All other application documentation can be submitted via ASET's online application system at [www.aset.ab.ca](http://www.aset.ab.ca).

#### Residency Requirement

Only Canadian citizens, permanent residents, or individuals lawfully entitled to work in Canada may apply for ASET certification and membership. You will be required to submit a copy of a valid work permit, if applicable. Individuals in Alberta on visitor or student visas are not eligible to apply.

## Certification Requirements

Internationally educated Mechanical Engineering Technicians must meet the following membership requirements:

### 1. *Academic Credentials*

A certificate in mechanical engineering technology (or equivalent) is the minimum requirement.

- Contact the school you graduated from and ask for an official copy of your academic transcripts. Transcripts are required in order to obtain an international credential assessment. Some assessment services may require your transcripts be sent directly from the issuing institution.
- Obtain a basic international credential assessment from a member of the [Alliance of Credential Evaluation Services of Canada](#) (IQAS is the service provider in Alberta but ASET will recognize assessments from other members of the alliance).
- Mail an original or notarized copy of your basic international credential assessment to ASET.

ASET Staff will conduct an initial review of your application form and international credential assessment to confirm whether you qualify for C.Tech.

### 2. *Competency Report*

All applicants for certification must complete a Competency Report to demonstrate the theoretical and practical skills and knowledge necessary to perform safely and competently as a mechanical engineering technician in Alberta.

The Competency Report requires you to provide written examples of how you demonstrated in the workplace the six (6) key competencies required of mechanical engineering technicians. Detailed instructions are provided to assist you with completing your report. Your report must be signed by a supervisor with direct knowledge of your work. A minimum of three (3) competencies must be demonstrated at the technician level to qualify for C.Tech.

### 3. *Work Experience*

For the C.Tech. designation, you must have a minimum of two (2) years of relevant mechanical engineering technology work experience as verified by your application documentation.

- At least three (3) professional references to validate your work experience. ASET recognizes work experience obtained outside of Canada. This work experience must be validated by a reference(s) with direct knowledge of your work.
- A resumé detailing your work experience.
- A job description outlining the responsibilities of your current position. Include your job title, section, department, company, the date you started your job and the title of your supervisor. Include all job duties, such as budget responsibilities or number of staff supervised or managed. Describe specific functions or equipment used in your job and how you used them. You must have your supervisor verify your job description by signing each page.

Note: If you do not yet have the necessary technologist level work experience for C.Tech., you may be eligible for T.T. membership while working towards your C.Tech. registration

#### 4. English Language Proficiency

If you are not a graduate of an academic program delivered in English, you must provide:

- The results of a recognized test for English language competency (TOEFL, IELTS, CLB, CAEL)

**or**

- A letter, signed by your supervisor, outlining how you became proficient in the English language.

#### 5. Examinations

Once academic qualifications and experience are confirmed, C.Tech. applicants must pass a Professional Practice Exam. You will be provided with information on necessary study materials and will be able to select from a range of upcoming dates and locations to write the exam. Exams are available in English only. You will be required to pay for the cost of exam and study materials.

#### Payment

The following fees apply for all applicants. All fees are in Canadian dollars. Fees are subject to change. See ASET website for the most up-to-date fees.

T.T. Membership Application Fee	Free
C.Tech. Membership Application Fee	\$275
C.E.T. Membership Application Fee	\$275
Professional Practice Exam	\$168
T.T. Annual Membership Dues	\$130
C.Tech and C.E.T. Annual Membership Dues	\$305

#### Average Earnings

The overall average earnings for Mechanical Engineering Technologists and Technicians, according to the Alberta 2013 Wage and Salary survey:

Average hours worked per week	39.3
Average wage per hour	\$38.29
Average salary per year	\$77,835

#### Employment Options

You can also consider working in Alberta in related occupations such as Non-destructive Testing Technician or other mechanical technician occupations.

For more information about additional employment options, go to the following website: [Alberta Learning Information Service \(ALIS\) Occupational Profiles — Mechanical Engineering Technologist](http://www.alis.alberta.ca/occinfo) ([www.alis.alberta.ca/occinfo](http://www.alis.alberta.ca/occinfo))

For information on the difference between technicians and technologists in Alberta, see the related response under Forms and Additional Resources on ASET's website: [Technicians and Technologists](#).

## Contact Information

Association of Science and Engineering Technology Professionals of Alberta  
1600, 9888 Jasper Ave  
Edmonton, Alberta  
T5J 5C6  
Telephone: 780-425-0626  
Fax: 780-424-5053  
Email: [registration@aset.ab.ca](mailto:registration@aset.ab.ca)  
Website: [www.aset.ab.ca](http://www.aset.ab.ca)

## Resources

This information is an overview of the certification process. For the most current information on Mechanical Engineering Technician certification visit the ASET website at [www.aset.ab.ca](http://www.aset.ab.ca).

Application Information:

[T.T. Application Information](#)

[C.Tech. Application Information](#)

[C.E.T. Application Information](#)

Academic Credential Assessment:

[International Qualifications Assessment Service \(IQAS\)](#)

[Alliance of Credential Evaluation Services of Canada](#)

English Language:

[English Language Competency](#)