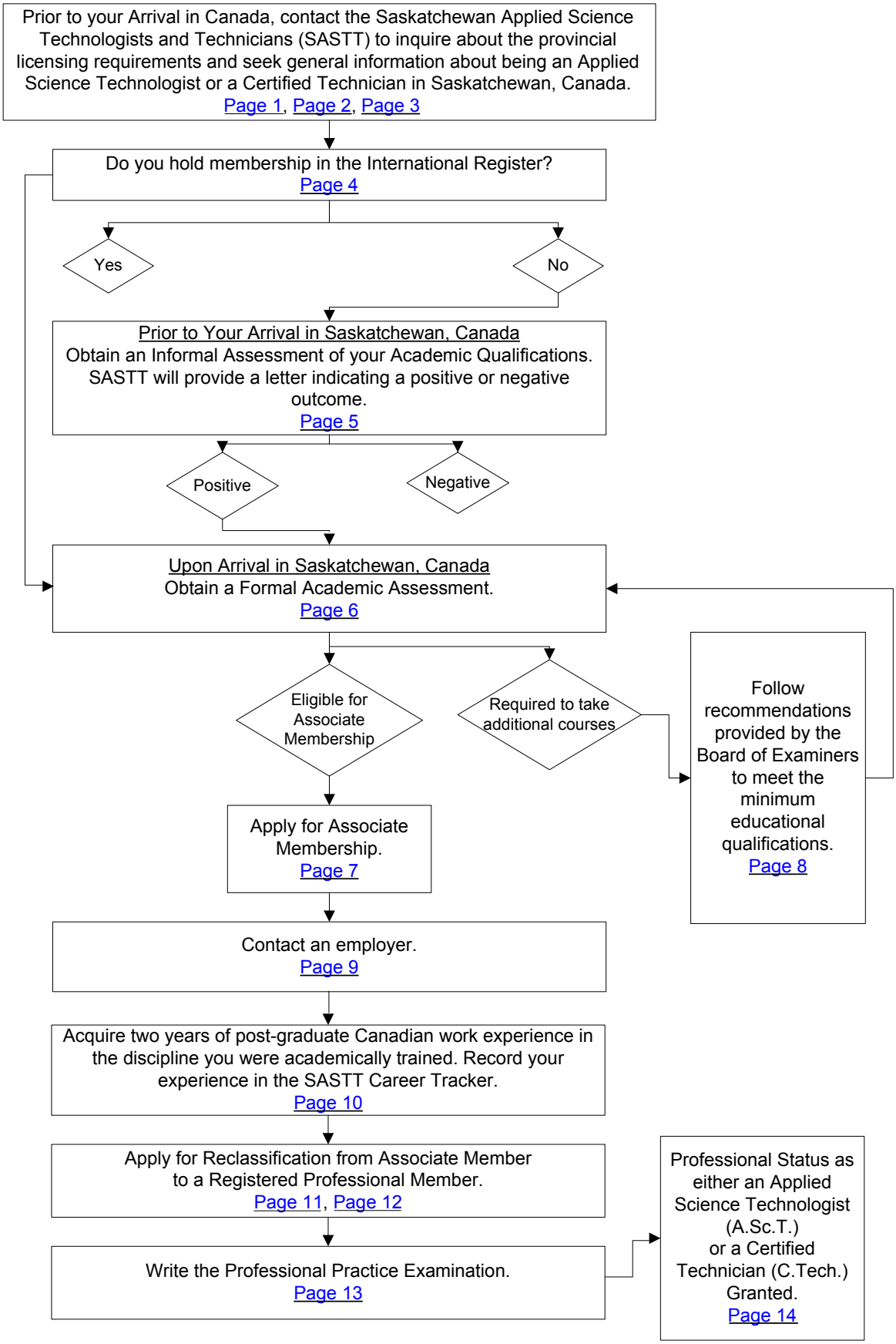
INTERNATIONALLY-TRAINED APPLIED SCIENCE/ ENGINEERING TECHNOLOGISTS & TECHNICIANS

Last updated: Mar 2012



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PROCESS MAP FOR INTERNATIONALLY-TRAINED APPLIED SCIENCE / ENGINEERING TECHNOLOGISTS & TECHNICIANS WISHING TO WORK IN SASKATCHEWAN, CANADA

This PROCESS MAP will provide internationally-trained applied science / engineering technologists and technicians with information about the most efficient pathway to obtain registration as an Applied Science Technologist or a Certified Technician by the Saskatchewan Applied Science Technologists and Technicians (SASTT). This roadmap is meant as a guide only, but is based on the experience of many applied science / engineering technologists and technicians that have been through the registration process.

Prior to your Arrival in Canada, contact the Saskatchewan Applied Science Technologists and Technicians (SASTT) to inquire about the provincial licensing requirements and seek general information about being an Applied Science Technologist, a Certified Technician or an Associate Member in Saskatchewan, Canada. Website: http://www.sastt.ca

The requirements for registration as an Applied Science Technologist (A.Sc.T.) or a Certified Technician (C.Tech.) may differ in each Canadian province. When deciding to settle in Saskatchewan, it is important to contact the Saskatchewan Applied Science Technologists and Technicians (SASTT) to find out the steps that are required to become an applied science / engineering technologist or technician in the province.

Before leaving your home country, contact SASTT to find out about the provincial licensing requirements and seek general information about being an applied science / engineering technologist or technician in Saskatchewan.

You may write to SASTT to inquire about the requirements and costs for licensing, registration, and the recommended procedure for an informal academic assessment prior to your arrival in Saskatchewan, Canada.

Be sure to ask specifically for information on what parts of the process you can do or start before you leave your home country. For example you may need to:

- prepare or obtain documents from your home licensing body or educational institution;
- obtain and complete forms that are available online;
- obtain personal or work references;
- begin necessary educational or language assessments; or
- begin applications to programs or examinations.

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For a general description of duties and employment requirements, you can refer to the information prepared by Human Resources and Skills Development Canada at the following website: http://www5.hrsdc.gc.ca/NOC-CNP/app/checkoccupation.aspx?lc=e&code=2

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GLOBAL DISCIPLINE LISTING WITH OPTIONS

BIOLOGICAL SCIENCE

Agriculture
Air, Water & Land Resources
Drug Processing
Fish and Wildlife
Fisheries
Food Processing
Landscape Architecture
Pollution Control

BUILDING

Architectural
Construction/Building
Naval Architecture

CHEMICAL

Applied Chemistry
Corrosion & Electrochemistry
Environment and Waste Management
Food Technology
Industrial Chemistry
Industrial Hygiene
Organic Chemistry (gas and petroleum)
Polymers (plastics)
Process Instrumentation

CIVIL

Architecture
Environmental Resources
Fire Protection
Geotechnical
Landscape
Marine
Structural
Transportation/Highways and Municipal
Urban and Regional Planning
Water Resources

ELECTRICAL

Electrical Machinery Design
Industrial Electrical Controls
Physics
Power and Distribution

ELECTRONICS

Audio/Acoustics
Bio-medical Electronics
Broadcast
Computer
Electromechanical
Telecommunications

FORESTRY

Pulp and Paper
Wood Products

GEOMATICS

Cadastral
Geodesic
G.I.S. – Geographic Information Systems
Photogrammetry
Remote Sensing
Survey

INDUSTRIAL

Computer Applications
Energy Systems
Fire Protection
Industrial Chemistry
Industrial Controls
Industrial Engineering
Industrial Hygiene
Industrial Management
Loss Prevention
Quality Control

INFORMATION

Computer Applications
Data Communications

INSTRUMENTATION

Avionics
Design
Industrial Controls
Nuclear Power Controls

MECHANICAL

Aeronautical
Aerospace
Fluid Power
H.V.A.C. and Refrigeration
Manufacturing
Marine
Mechanical Engineering Design
Mobil Equipment
Motive Power
Textiles

MINING

Extractive
Geological
Geophysical
Metallurgical
Mining
Physical
Resource Planning
Welding

PETROLEUM

Exploration
Extractive Metallurgy
Gas
Petroleum
Processing
Production
Resource Planning

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COMPARISON BETWEEN TECHNOLOGISTS AND TECHNICIANS

(Note: Areas of difference are in bold type)

Area of Comparison	Applied Science Technologist	Certified Technician
Registration Requirements:	• Saskatchewan Grade 12 diploma or equivalent • **Diploma from a recognized institute of technology in an applied science or engineering technology program of two or more years, or equivalent academics that have been assessed against SASTT registration requirements, and approved by SASTT's Board of Examiners; OR** • Successful completion of an appropriate SASTT reclassification program • **An acceptable technology report or thesis** • Minimum of two years of approved technical experience • Professional references • Completion of SASTT's Professional Practice and Ethics Examination	• Saskatchewan Grade 12 diploma or equivalent • **Certificate from a recognized institute of technology in an applied science or engineering technology program of one or more years, or equivalent academics that have been assessed against SASTT registration requirements, and approved by SASTT's Board of Examiners; OR** • Successful completion of an appropriate SASTT reclassification program • **No technology report or theses required** • Minimum of two years of approved technical experience • Professional references • Completion of SASTT's Professional Practice and Ethics Examination
Typical Training Programs:	• **Includes 21 areas of study in technology related courses, including all generic competencies and at least 6 technology major competencies outlined in the SASTT registration requirements**	• **Includes 12 areas of study in technology related courses, including all generic competencies and at least 6 technician major competencies outlined in the SASTT registration requirements**
Designation:	• **Bound by a professional code of ethics, and is recognized by the designation Applied Science Technologist (A.Sc.T.)**	• **Bound by a professional code of ethics, and is recognized by the designation Certified Technician (C.Tech.)**
Typical Scope of Work:	• **May work independently or under general direction** **Typical duties include:** • **Designing equipment/processes** • **Analysis** • **Resolve problems** • **Carry out studies** • **Interpret / evaluate situations / data** • **Specify tests** • **Develop prototypes** • **Operate pilot plants / projects** • **Prepare specifications** • **Troubleshoot complex equipment** • **Develop solutions** • **Project management** • **Write reports** • **Interpret quality control** • **Scheduling / planning** • **Design modeling** • **Supervision** • **Numeric / spacial modeling** • **Inspect** • **Plan** • **Applies engineering principles based on a comprehensive understanding of a specific technology to resolve problems** • **May assume managerial or administrative responsibility for a wide range of technical endeavors, and may supervise and coordinate a diverse working group and train less experienced technical and professional staff**	• **Works under general supervision and assists other employees** **Typical duties include:** • **Inspection** • **Troubleshooting** • **Repair** • **Testing** • **Reporting** • **Maintenance** • **Estimating** • **Calibration** • **Drawing preparation** • **Production control** • **Construction supervision** • **Operations** • **Installation** • **Sampling/testing** • **Design drafting** • **Conduct quality control tests** • **Data compilation** • **Sales** • **Surveying** • **Model preparation** • **Examines assignments, objectives and instructions to select procedures and actions to resolve the assigned problem** **Duties are usually in a specific area of specialization**

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Do You Hold Membership in the International Register?

Canada joined The Engineers Mobility Forum (for technicians), and The Engineering Technologist Mobility Forum (for technologists) in 2005. As a member of the ETMF, Canada recognizes the credentials of technicians and technologists who are listed on the international registers of other participating states.

The countries participating in the ETMF are: New Zealand, Australia, Hong Kong, China, Ireland, South Africa, and the United Kingdom.

Those who have been admitted to the international register will be allowed to use the post-nominal International Engineering Technologist (IntET).

The criteria required for inclusion in the International Register include:

- graduation from, or holding substantial equivalency to an applied science / engineering technology program offered by a school recognized by a professional registration body, such as SASTT;
- registration by a recognized authority which, for Canadians, implies membership in a provincial professional Association such as SASTT,
- a minimum of seven years of practical experience since graduation of which, at least, two years must have been spent in charge of significant applied science / engineering technology work, and
- the maintenance of continuing professional development activities.

Applicants Seeking Residence in Saskatchewan, Canada Contact:

Saskatchewan Applied Science Technologists and Technicians (SASTT)
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Regina, SK S4N 5B2
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Website: http://www.sastt.ca/

Note to applicants: Those who hold membership in the International Register DO NOT need to obtain an Informal Foreign Qualifications Assessment prior to their arrival in Canada; however applicants must seek a Formal Assessment of Academic Qualifications from SASTT upon arrival to Saskatchewan.

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Prior to Your Arrival in Saskatchewan, Canada
Obtain an Informal Assessment of your Academic Qualifications

The Saskatchewan Applied Science Technologists and Technicians (SASTT) will assist Citizenship and Immigration Canada (CIC) in assessing the applied science / engineering technology qualifications of people applying for permanent residence in Saskatchewan who intend to work as technologists and technicians.

Following an informal assessment, you will be provided with a letter indicating a positive or negative outcome.

A positive outcome is valuable information to visa officers. This information is taken into account when your application for permanent residence in Canada is assessed. It does not guarantee the Canadian Government they will approve your application, but it will definitely be a factor in your favour.

A negative outcome is also valuable information for you. It tells you that applying to immigrate to Canada with the intention of working here as an applied science / engineering technologist or a technician without further education is unrealistic, based on your educational background and experience.

This informal assessment is undertaken solely for immigration purposes and does not guarantee your eventual registration in Saskatchewan, Canada. Once you arrive in Canada, if you wish to become registered in the Province of Saskatchewan you must apply for registration with SASTT. You will be required to pay a registration fee and successfully complete any required examinations. A formal assessment of your qualifications will be undertaken, which will also determine the appropriate amount of Canadian experience that is required. This informal assessment will have no bearing on the formal assessment carried out by SASTT.

The following documentation is a summary of what must be included in the formal application package:

- personal information;
- province of intended destination;
- applied science / engineering technology education;
- registration as a technician, technologist or engineer;
- detailed course descriptions from the institution you attended and from the year(s) in which you attended;
- brief but detailed resume listing dates, positions held and job duties; and
- payment of an assessment fee. Please contact SASTT for information regarding fees.

Note: All documents must be provided in English or certified by a professional Canadian translator.
The fees for academic assessment and annual membership are subject to change without notice.

Application packages are available online at the SASTT webiste under the tab "Welcome to SASTT".

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Upon Arrival in Saskatchewan, Canada
Obtain a Formal Academic Assessment.

Upon arrival in Saskatchewan it is necessary for all applicants to contact the Saskatchewan Applied Science Technologists and Technicians (SASTT) for a formal academic assessment.

The formal academic assessment is conducted by the Board of Examiners for an assessment fee. The formal academic assessment is a comparison of an applicant's course of study in applied science/engineering technology against the current registration requirements established by SASTT.

The documentation that must be submitted along with the application package includes:

- personal information;
- three references (one of which must be an immediate supervisor);
- certified true copies of academic transcripts and detailed course outlines obtained from technical schools or post-secondary studies for the year(s) in which you attended;
- student work (i.e. technical report / thesis);
- employment history; and a
- detailed job description of your current position, signed and dated by your immediate supervisor.

Note: All documents must be provided in English or certified by a professional Canadian translator. The academic assessment fee and annual membership fees are subject to change.

Upon review of your application the Board of Examiners will assign you the registration category that reflects your individual academic and experience qualifications.

The Board of Examiners will determine whether you:

(a) are eligible for associate membership with or without the option to reclassify to a registered member; or
(b) are required to take additional courses or a program of study.

For more information on obtaining a formal academic assessment contact the Saskatchewan Applied Science Technologists and Technicians.

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Apply for Associate Membership.

The SASTT Board of Examiners may determine whether you are eligible for Associate membership.

Membership Eligibility and Classification

Associate Members

Associate members shall be those persons who:

i) are employed in the applied science or engineering technology community but who lack some of the required educational qualifications for registration of a registered professional member;

or

ii) have met all of the educational requirements for registration but lack the relevant experience required of a registered professional member.

Associate membership shall be issued and renewed at such intervals and subject to such conditions, limitations and restrictions as may be set out in policy established by the Board of Directors.

Application forms for Reclassification are available on the SASTT website: http://www.sastt.ca under the heading "Welcome to SASTT".

Please contact the SASTT office for information regarding the annual membership fee for an Associate Member. The annual membership fees are subject to change without notice.

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Follow Recommendations Provided by SASTT's Board of Examiners to Meet the Minimum Educational Qualifications.

Following a detailed review of your application and academic qualifications against the current registration requirements established by SASTT, the SASTT Board of Examiners may determine that you need further education because you do not meet the minimum educational qualifications required for membership.

If deficiencies are identified by SASTT's Board of Examiners they will recommend you take particular courses at either a technical college or a university that offers recognized courses. Prior to enrolment in any subject, applicants should secure a letter from SASTT verifying that upon successful completion appropriate credit towards registered professional membership status will be awarded to the applicant.

For a list of Saskatchewan programs recognized by SASTT see the following website: http://www.sastt.ca

Saskatchewan Institute of Applied Science and Technology (SIAST)
400 - 119 - 4th Avenue South
Saskatoon SK S7K 5X2
Tel: (306) 933-7331
Website: http://www.siast.sk.ca/

Faculty of Engineering
University of Regina
3737 Wascana Parkway
Regina, Saskatchewan S4S 0A2
Tel: (306) 585-4537
Website: http://www.uregina.ca/engg/

College of Engineering
University of Saskatchewan
28 Campus Drive
Saskatoon, Saskatchewan
Tel: (306) 966-5256
Fax: (306) 966-7020
Website: http://www.engr.usask.ca/

Athabasca University
1 University Drive
Athabasca, AB T9S 3A3
Tel: (780) 675-6405
Website: http://www.athabascau.ca/

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Contact an Employer.

Find an employer willing to provide training and supervision to you as an Associate Member.

You can find employers by searching the internet and by looking in the Yellow Pages (the telephone directory for businesses) or in local newspapers. Employers occasionally place job ads agencies. Members of SASTT have secured access to employment opportunities posted on SASTT's website at http://www.sastt.ca/

The Associate Member may select an employer by:

- asking a personal acquaintance (e.g. a previous employer) for recommendations;
- asking an employer or fellow member for recommendations; or
- asking SASTT for assistance.

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Acquire two years of post-graduate Canadian work experience in the discipline you were academically trained. Record your experience in the SASTT Career Tracker.

The SASTT Career Tracker is used by the Registration Board to determine if sufficient work experience has been achieved at the time an applicant is seeking registered professional member status.

All entries in the Career Tracker should include:

- project dates;
- description of the duties performed during the project; and
- initials for verification and a signature from a supervisor or client.

You will be required to provide evidence of having a minimum of two years Canadian progressive, post graduate work-related experience in your field of academic training when you apply for reclassification from an Associate Member to a registered professional member. SASTT's Registration Board will evaluate your experience in accordance with the Professional Profile guidelines established.

The Profile of a Professional Applied Science Technologist and the Profile of a Professional Certified Technician are included in the application package for the formal academic assessment.

The Career Tracker is available on the SASTT website: http://www.sastt.ca/ under the heading "Students".

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Apply for Reclassification from Associate Member to a Registered Professional Member.

The documentation that must be submitted along with the application package includes:

- personal information;
- three references (one of which must be an immediate supervisor);
- certified true copies of academic transcripts obtained from technical schools or post-secondary studies;
- employment history;
- detailed job description of your current position, signed and dated by your immediate supervisor; and
- SASTT Career Tracker.

If a certified true transcript was supplied along with your initial application, an additional copy is not required.

Please contact SASTT for information regarding fees. Fees are subject to change without notice.

Note to all applicants: Professional status as either an Applied Science Technologist (A.Sc.T.) or a Certified Technician (C. Tech.) will not be granted until an applicant successfully passes the Professional Practice Examination. A Reclassification fee includes the costs for the professional practice examination and the required materials. Fees are subject to change without notice.

Application forms for Reclassification are available on the SASTT website: http://www.sastt.ca/ under the heading "Welcome to SASTT".

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Criteria for Registered Professional Members

A registered professional member is one who has met both the required academic, and experiential qualifications established by the Board.

a) **Applied Science Technologist**

An Applied Science Technologist shall hold a diploma in an accredited or recognized applied science / engineering technology program from a Saskatchewan technical institute or equivalent courses from other recognized institutions, or satisfactory completion of examinations established by the Association's Examination Board; and

provide evidence that he / she has a minimum of two years progressive, Canadian work-related experience in their field of academic training. The applicant's experience shall be evaluated in accordance with the Professional Profile of an Applied Science Technologist and guidelines established by the Registration Board.

b) **Certified Technician**

A Certified Technician shall hold a certificate in an accredited or recognized applied science / engineering technology program from a Saskatchewan technical institute or equivalent courses from other recognized institutions, or satisfactory completion of examinations established by the Association's Examination Board; and

provide evidence that he / she has a minimum of two years progressive, Canadian work-related experience in their field of academic training. The applicant's experience shall be evaluated in accordance with the Professional Profile of a Certified Technician and guidelines established by the Registration Board.

Once membership has been approved by the Registration Board, the Registrar shall notify the applicant of the appropriate category of membership in which the applicant has been registered.

Please contact SASTT for information regarding fees. Fees are subject to change without notice.

Note to all applicants: Professional status as either an Applied Science Technologist (A.Sc.T.) or Certified Technician (C. Tech.) will not be granted until an applicant successfully passes the Professional Practice Examination. The fees include the costs for the examination and the required study materials.

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Write the Professional Practice Examination.

The Professional Practice Examination (PPE) was implemented in 2001. Prior to registration as a professional **A.Sc.T.** or **C.Tech.** in the Saskatchewan Applied Science Technologists or Technicians (SASTT), applicants are required to successfully complete the Professional Practice Examination with a passing mark of 80%. Upon receipt of the application fee, the exam and all materials required to prepare for the exam will be mailed to the applicant.

The objective of the Professional Practice Examination is to ensure applicants have an understanding of their professional ethical responsibilities.

The exam will include questions on the following:

1. **SASTT Act**
2. **SASTT Administrative and Regulatory Bylaws**
3. **SASTT Code of Ethics**

This exam is not required for enrollment as an Associate Member.
The exam will not be returned to the applicant.

Contact SASTT for information.

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Professional Status as either an Applied Science Technologist (A.Sc.T.) or a Certified Technician (C.Tech.) Granted.

After successful completion of the Professional Practice Examination, and all other documentation deemed acceptable to SASTT's Registrar and Registration Board, applicants will be notified in writing of the appropriate professional designation they are entitled to use [i.e. Applied Science Technologist (A.Sc.T.) or Certified Technician (C.Tech.).]

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