



ONTARIO RECREATION
FACILITIES ASSOCIATION INC.

CERTIFIED ICE TECHNICIAN PROFESSIONAL DESIGNATION



Recognized by:



CERTIFIED ICE TECHNICIAN (CIT) PROFESSIONAL DESIGNATION

Recognized by the National Hockey League (NHL), the Certified Ice Technician (CIT) designation is the most highly recognized professional achievement for ice operators. To qualify for this designation, a practitioner must successfully complete the following three courses in sequential order: Basic Refrigeration; Ice Making and Painting Technologies; and Ice Maintenance and Equipment Operations. In addition, the practitioner must hold individual membership in the ORFA; have a Grade 12 education; maintain current WHMIS and Standard First Aid training; and have a minimum 24 months related work experience in refrigeration operations and in ice making and maintenance.

Each course is taught using a combination of classroom-based study with some hands-on training. Participants are expected to be able to return to their workplace and utilize the skills and knowledge they have learned in the courses. The hands-on portion of each course requires participants to arrive in appropriate work clothes including CSA-approved footwear.

Basic Refrigeration

A time-tested course, Basic Refrigeration has been delivered to recreation facility personnel for over four decades and has become an industry-recognized minimum competency for practitioners working in a recreation-related refrigeration plant.

Participants will learn the fundamentals of the theory and principles of refrigeration and the importance this plays in the creation of a quality ice surface. While not mandatory, participants are encouraged to gain some knowledge of a working refrigeration system prior to attendance. It is recommended that prior to attending this course participants ask their refrigeration plant operator, or other qualified facility individual, for a guided tour and orientation of the refrigeration plant. This review should explore: key pieces of equipment; safety devices; log book use; responses to emergencies and evacuation plans; types and amounts of refrigerants; storage; and personal protective equipment for all noxious gases and/or refrigerants stored on site.

Topics include:

- Principles of Refrigeration
- Refrigeration Equipment Identification & Function
- Refrigeration Controls, Accessories and Safety Devices
- Refrigeration System Operation & Maintenance

Ice Making and Painting Technologies

Prerequisites: Participants should have completed the Basic Refrigeration course or the Advanced Refrigeration Facility Operator course and have one year, hands-on, artificial ice experience.

Creating a durable sheet of ice requires a clear understanding by the ice technician of the ice making environment. This environment will include such variables as basic scientific principles surrounding air, water, paint and refrigeration and may or may not be within the operator's control. Building on the theory gained in the refrigeration classes, this course will enhance the participants' knowledge, while increasing their operational effectiveness through a clear understanding of proven ice installation principles and techniques. Further, participants will learn basic standard facility operation practices and have hands-on exposure to various proven on-ice applications.

Some practical on-ice demonstrations will occur, with limited opportunity for each participant to take part. All students should come prepared to spend up to seven hours on the ice. Clothing and CSA-approved footwear should be selected and worn to suit a cold, wet work environment.

Topics include:

- History of ice making and painting
- Humidity – principles and equipment
- Water – understanding and controlling Total Dissolved Solids
- Refrigerated floors – constructed options, limitations and preparation
- Dasher board systems – types, best installation practices, safety
- Painting and Logos – painting ice white, lines and logos vs. paper, vinyl and other materials
- Specialty Ice Surfaces
- Hockey, Curling, Speed Skating, Broomball, Ringette, Figure Skating, Sledge Hockey and Public Skating
- Ice Energy Management



Ice Maintenance and Equipment Operations

Prerequisites: Participants should have completed a) Basic Refrigeration or the Advanced Refrigeration Facility Operator course; b) and the Ice Making and Painting Technologies course; and c) have two years of practical artificial ice knowledge with some ice resurfacer operational experience or a Safe Ice Resurfacer Operator permit.

In this course, participants will learn skills to create exceptional ice, troubleshoot poor ice conditions, perform ice maintenance, and operate and maintain equipment while ensuring a safe physical setting. There will be some limited opportunity for each participant to take part in the on-ice demonstrations. All participants should come prepared to spend up to seven hours on, or near, the ice surface.

This course is not designed to make a worker a completely competent ice resurfacer driver. It has been created to demonstrate industry best practices with regard to the operation and care of a vital and expensive piece of ice maintenance equipment. The ice resurfacer is a complicated piece of heavy equipment that requires a concise understanding of how it works, what adjustments must be maintained and what ongoing regular maintenance must be conducted by the operator to ensure it provides trouble-free operation. Ongoing workplace specific training must take place once the participant completes this training course.

The ORFA works closely with both Zamboni and Resurface Corporation in providing the most up-to-date operational information to participants during this course.

Please note that appropriate clothing and CSA-approved footwear must be worn to suit a cold and wet work environment.

Topics include:

- Daily facility physical maintenance through both policy and procedure
- Ice maintenance, up-keep and equipment
- Troubleshooting
- Air quality
- Facility changeovers
- Fossil fuel safety
- Edger use and safety
- Ice resurfacer operations and maintenance



The Ontario Recreation Facilities Association Inc. (ORFA) was incorporated in 1947 as a provincially-recognized, not-for-profit, volunteer driven recreation organization to be the leader in the recreation facility profession. The mission of the ORFA is to provide leadership in the development and delivery of innovative training and education programs, value-added services, and quality products for the benefit of the recreation facility profession. The ORFA serves as the National Head Office of the Canadian Recreation Facilities Council.

For more information, please visit www.orfa.com

**APPLICATION FORM
CERTIFIED ICE TECHNICIAN (CIT) PROFESSIONAL DESIGNATION
STEP I: APPLICANT CONTACT INFORMATION**

Mr Ms First Name Last Name

Title/Position Employer

ADDRESS: Home Business

Town/City Province/State Postal/Zip Code

Home Phone Business Phone Fax Email

STEP II: DESIGNATION REQUIREMENTS

I, _____ certify that I have successfully completed the following requirements in order to be awarded the CIT designation:

- hold Individual Membership in the ORFA (required to obtain and maintain designation)
- Basic Refrigeration (attach copy of grade report and/or certificate of completion — final grade must be 60% or higher)
(or Advanced Refrigeration Facility Operator - attach copy of grade report and/or certificate of completion — final grade must be 60% or higher)
(or TSSA's Refrigeration Operator Class "B" Certification - attach copy of grade report and/or certificate of completion — final grade must be 60% or higher)
- Ice Making and Painting Technologies (attach copy of grade report and/or certificate of completion — final grade must be 60% or higher)
- Ice Maintenance and Equipment Operations (attach copy of grade report and/or certificate of completion — final grade must be 60% or higher)
- Grade 12 diploma or college/university diploma/degree (attach copy of diploma or degree)
- hold current WHMIS Training (attach copy of certificate of completion)
- hold current Standard First Aid Training (attach copy of certificate of completion)
- have a minimum of 24 months work experience in refrigeration operations and ice making and maintenance as confirmed by my current employer's authorized representative as identified below:

Name

Title

Authorized Representative's Signature

Business Phone

CIT Applicant's Signature

Application Date

NOTE: All Certified Ice Technicians (CITs) will be required to recertify every five years in order to maintain their CIT professional designation. For more information, contact the ORFA.

STEP III: STATEMENT OF DECLARATION AND CODE OF ETHICS

I wish to apply for an ORFA professional designation and to the best of my knowledge, the information presented as part of this application is true and correct. I understand the ORFA reserves the right to confirm this information, as required. If I am awarded an ORFA professional designation I agree to abide by the Code of Ethics and understand that I must maintain an individual membership with the ORFA.

ORFA professional designation holders shall:

- hold learning and continuing professional development as fundamental to support and promote the Association's professional designation programs
- demonstrate respect for client dignity and rights and foster practices of inclusion in all aspects of professional activity
- not knowingly contravene or cause to be contravened, any legislation, act, regulation or by-law which relates to their position or the registration program
- be aware of the responsibility to client, employer and community, and to minimize the risk of injury or liability
- strive to maintain the community and employer trust and refrain from any inappropriate practice which may lead to or appear to lead to personal gain
- hold personal knowledge and information gathered in normal business activity as confidential and immediately acknowledge any and all appearance of conflict of interest
- practice and encourage a code of moral behaviour anticipated by our clients, employers and Association.

SIGNATURE OF APPLICANT DATE

STEP IV: APPLICATION SUBMISSION Please forward your completed application form to:

Ontario Recreation Facilities Association, 1 Concorde Gate, Suite 102, Toronto, Ontario M3C 3N6
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