



orfa.com

# ICE MAKING AND PAINTING TECHNOLOGIES

June 3 to 6, 2019

National Ice Centre, Nottingham



In partnership with:





# Ice Making and Painting Technologies (IMPT)

Monday, June 3 to Thursday, June 6, 2019, 8:30 am - 4:30 pm

Fee: £680 plus 20% VAT = £816

The IMPT course, developed by the ORFA and its training partner, Jet Ice, continues to be recognized as the industry-leading standard for professional development in ice-making principles and application techniques for all ice technicians. It is important to note that litigation involving ice conditions will almost always use the Ice Making and Painting Technologies course materials as the proven acceptable industry standard to be met. Knowing and applying these established principles is essential to reducing ice arena risk of liability.

Creating a durable sheet of ice requires a clear understanding of the ice making venue and its mechanical ability and limitations. This environment will include basic yet essential scientific principles surrounding air, water, ice paint, logo materials and HVAC-R systems. The IMPT course will enhance the participant's 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 practical demonstrations with hands-on exposure to various proven on-ice application techniques. Risks and hazards associated with ice making are also reviewed so that participants are aware of the hidden dangers associated with this task.

At the end of this course, participants will have enhanced their skills and knowledge in ice making and maintenance allowing for facility operators to reduce costs related to the outsourcing of ice installation. This course will also provide for ample networking opportunities among participants from across the UK and Europe.

## Topics include:

### Module 1 – A History of Ice

- Types of ice venues
- Legal considerations
- Worker safety

### Module 2 – Ice Maker's Building: Operational Challenges

- Preparing the building for new ice
- Controlling humidity and mould
- Monitoring building structural integrity

### Module 3 – The Ice Bowl

- Understanding ice rink use limitations
- Basic ice base construction methods
- Dasher board design

### Module 4 – Making New Ice

- Ice making water
- Ice paint
- Base preparation
- Controlling air entrapment
- Ice making tools
- Outdoor ice

### Module 5 – Painting Ice White

- History of ice paint
- Colouring methods
- Ice painting equipment
- Ice painting tools
- The bond, application, sealing
- Ice paint installation issues

### Module 6 – Ice Sport Markings and Practice Ice Painting

- Sport marking variables
- Ice painting tools
- Templates
- Paint application equipment and techniques
- Hockey marking layout
- Ice logos
- Other ice sport marking requirements

### Module 7 – Ice Technician Energy Management

- Energy management 101
- Building design and operations
- Equipment efficiencies
- Application of ice making and maintenance best practices

## Certified Ice Technician (CIT) Professional Designation

RECOGNIZED BY:



For complete CIT information, visit  
[www.orfa.com/designations/cit](http://www.orfa.com/designations/cit)

## Instructors:

**Graham Nesbitt, CRFP, CIT, CARPT** is ORFA's Coordinator, Training and Development responsible for the delivery of a variety of ORFA courses across the province. Graham has been employed in the arena and recreation facilities business in various capacities for 35 years and has also been painting ice for over 25 years for many rinks in his local area. Graham paints over 30 ice sheets a year in Canada, and has been the lead instructor for a number of refrigeration and ice courses for NHL facilities operations staff in North America.

**Kevin Hill, CRFP, CIT** is currently employed with the Town of Renfrew as the Director of Parks and Recreation and owns and operates Eastern Rink Services. He has over 25 years' experience in municipal recreation and has been instructing for ORFA for over 10 years. A former board member and Vice President of ORFA Kevin continues to sit on the Arena Technical Advisory Committee. Kevin paints over 70 ice sheets a year in Canada.

## ONTARIO RECREATION FACILITIES ASSOCIATION INC.

The Ontario Recreation Facilities Association (ORFA) was created in 1947 in Toronto, Canada, and incorporated in 1951 as a provincially-recognized, not-for-profit, volunteer-driven recreation organization. Today, the ORFA has over 6,500 members who operate and manage recreation facilities in municipalities, educational institutions, government agencies, First Nations communities and in the private recreation sector. Members also include businesses and industries that support the recreation sector. As a member-based organization, the ORFA is dedicated to providing leadership in training and development, and in products and services for the benefit of the recreation facility profession.

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## NATIONAL ICE CENTRE

The National Ice Centre was given the royal seal of approval by HM the Queen on July 31 2002. This topped off £43 million and seven years of hard work, to turn the dream of the UK's first centre of excellence in ice sports into reality.

Nottingham has a long tradition of ice skating stretching back many years. It started way back in 1895 with skating on the frozen River Trent to over 60 years of skating in the old Ice Stadium. But it was the 80's that really saw the glory days for British skating with Nottingham's most famous couple Jayne Torvill and Christopher Dean dominating the World and Olympic Championships. Their triumphs have inspired a whole new generation of youngsters into taking up ice sports.

The Arena Rink was opened on the 1st April 2000 by Jayne Torvill and was followed by the Olympic Rink opening just a year later on 7th April 2001. This made the National Ice Centre the first twin Olympic-sized (60m x 30m) ice rink facility in the UK heralding a new era in the development of ice sports.

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## GENERAL INFORMATION

**Course Registration Fee and Deadline:** Registrations will not be confirmed until payment is received in full. Acceptable methods of payment include: Visa, MasterCard, or BACS. The course registration fee includes tuition, course binder, lunch and refreshment breaks. Accommodation is not included and is the responsibility of the registrant. **Course registration deadline is Friday, May 3, 2019.**

**Cancellation and Refunds:** A complete refund, less a £75 administration fee, will be issued provided written notification of cancellation is received by the National Ice Centre no later than Friday, May 3, 2019. No refunds will be issued after this date. Registrants will receive a full refund should the course be cancelled. The ORFA/National Ice Centre reserves the right to cancel the course. In the event of a cancellation, any additional costs (e.g. travel, accommodation, etc.) incurred by the registrant will not be covered by the ORFA/National Ice Centre.

**Examination:** This course includes an examination which will be written by participants on the last day of class.

**Personal Protective Equipment Required:** Participants are required to supply and wear layered clothing and appropriate safety footwear suitable for an ice arena environment. Head protection gear is also recommended.

**Drugs and Alcohol Policy:** No participant is to use any piece of equipment or attend any classes if under the influence of alcohol and/or drugs. The ORFA has a zero-tolerance policy on such activities. Any person who breaches this policy may be asked to immediately leave the program. Participants who are under the care of a medical professional must identify their condition in confidence to the primary ORFA course instructor. The ORFA reserves the right to limit any participation in hands-on training.

## FOR MORE INFORMATION CONTACT

Richard Rowlands, Facilities Manager  
National Ice Centre, Bolero Square, The Lace Market  
Nottingham, UK, NG1 1LA  
richard.rowlands@national-ice-centre.com  
Tel: 01 15 853 3126



## STEP 1: CONTACT INFORMATION

☐ Mr. ☐ Ms. ☐ Other

NAME

POSITION/JOB TITLE

EMPLOYER

FACILITY

MAILING ADDRESS ☐ BUSINESS OR ☐ HOME

TOWN/CITY

POSTCODE

HOME PHONE

BUSINESS PHONE

BUSINESS FAX

EMAIL

## STEP 2: COURSE FEE

Ice Making and Painting Technologies	£	680
VAT 20%	£	136
<b>TOTAL</b>	<b>£</b>	<b>816</b>

## STEP 3: DISCLAIMER

*As the registered participant, you are required to read and sign the following disclaimer in order for your registration to be processed: "I, the registered participant, agree to assume all risks, including travel to and from the program, and waive all rights and all liabilities for personal injury or property loss whether occurring prior to, during, or subsequent to the program whether caused by the ORFA and/or by the National Ice Centre's negligence or otherwise, and for the consideration aforesaid, I covenant and agree not to make any claim or to commence or maintain any action or proceeding against them. And it is further agreed that the ORFA and/or National Ice Centre does not by the payment aforesaid or otherwise admit any liability to me and liability is in fact denied."*

Participant's Signature

DD/MM/YY

### BANK INFORMATION

Barclays Bank  
Barclays Business Centre  
City Office Park  
Tritton Road, Lincoln, LN6 7AR

ACCOUNT NAME NOTTINGHAM ICE CENTRE LTD  
ACCOUNT NUMBER 10430668

SORT CODE 20-50-39

### FOREIGN PAYMENTS:

SWIFT CODE BARCGB22

IBAN CODE GB34 BARC 20502110430668

## STEP 4: PAYMENT

Payment by VISA, Mastercard, or BACS.

Contact Richard Rowlands for invoicing or credit card payment.

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A complete refund, less a £75 administration fee, will be issued provided written notification of cancellation is received by the National Ice Centre no later than Friday, May 3, 2019. No refunds will be issued after this time period. Registrants will receive a full refund should the course be cancelled. A £50 service charge will apply to all bounced cheques.

Please remit completed registration form and payment to:

**Richard Rowlands, Facilities Manager**  
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Nottingham, UK, NG1 1LA  
richard.rowlands@national-ice-centre.com  
Tel: 01 15 853 3126

