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# Form

## Technical Training Enrollment

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## Form Technical Training Enrollment

### Syllabus

#### Summary

The Smardt Technical Training course is a four day program designed to equip technicians with the skills and tools necessary to service and maintain Smardt products. The certification received upon completion of this course authorizes the participants to carry out regular maintenance and basic troubleshooting of Smardt equipment but does not certify them as a third party trainer on Smardt, Kiltech, or DTC equipment nor does it grant permission to start Smardt chillers unassisted. Certification will remain valid for a period of 18 months, after which, Smardt reserves the right to require additional advanced or refresher training in order to maintain certification.

Smardt reserves the right to enroll applicants from multiples organizations in any course administered by Smardt and the right to reject applicants or refuse certification, at its sole discretion, if the contractor or technician pre-requisites listed below are not met.

#### Location

**Smardt Inc.**  
1840 Trans Canada Hwy  
Dorval, QC  
H9P 1H7  
Canada  
(514) 426-8989 – Office, Main  
(514) 683-5585 – Product Support  
(514) 683-6013 – Office, Fax  
[support@smartd.com](mailto:support@smartd.com)  
[www.smartd.com/training](http://www.smartd.com/training)

#### Computer Pre-Requisites

Participants are required to bring a laptop computer, on which they possess administrator rights, that runs a Windows Operating System (OS) as well as one that can open and edit Adobe PDF and MS Office documents. Please note that Windows 10 has not been tested with any of Smardt's products yet and therefore proper operation with required software is not guaranteed.

Participants will be provided internet access during the training process but must also have access to and be able to operate a mobile internet device when servicing Smardt equipment.

#### Cost

Costs, hotel, restaurant, and travel recommendations are available upon request at [support@smartd.com](mailto:support@smartd.com) and are per person per company. Travel, accommodations, and transportation are the responsibility of the participants.

#### Cancellation Policy

A cancellation fee of 30% will apply if attendance is cancelled within 30 calendar days of a scheduled course, 60% if cancelled within 14 calendar days, and 100% in the case of an absence.

Smardt reserves the right to cancel a scheduled course if enrollment is insufficient. Please confirm scheduling with the Product Support department prior to making your travel arrangements.

## Form Technical Training Enrollment

### Contractor Pre-Requisites

- Clean tubes/coils
- Leak check complete chiller
- Reclaim chiller refrigerant charge
- Evacuate chiller below 500 microns
- Replace compressors/components

### Technician Pre-Requisites

- Documented Education or related work experience (1 of the following 4)
  - Engineering Degree
  - Associates Degree
  - Professional Certificate
  - Trade Papers
  - 5 yrs. minimum experience with Centrifugal chillers
- Adequate Computer Skills
  - Familiar with Microsoft Windows
  - Familiar with Microsoft Office
  - Able to copy/paste files/folders
  - Able to open, create, and save files
  - Able to capture screen shots
  - Able to download and install software
- Familiar with basic multimeter functions
  - Measuring resistance ( $\Omega$ )
  - Measuring voltage ( $\tilde{V}$  or  $\overline{V}$ )
  - Measuring amperage ( $\tilde{A}$  and  $\overline{A}$ )
  - Measuring milli-amperage ( $m\tilde{A}$  and  $m\overline{A}$ )
  - Measuring continuity (•••)
  - Measuring diodes (••)
  - Measuring capacitance (•••)

### Technician Preferences

- Ability to read P&ID documents
- Previous electrical experience/training
- Previous VFD experience/training
- Previous controls experience/training

### Course Outline

The four day course covers the revolutionary Danfoss Turbocor compressor technology, the innovative Kiltech controller, and the energy efficient Smardt chiller family. Each day begins at 9am and lasts for approximately seven hours including a one hour lunch.

#### Day 1

- Company Overview/Technology history
- DTC Compressor Overview
- Compressor key features
- Discussion on centrifugal compressors
- Compressor in-depth
- Compressor operation

#### Day 2

- Kiltech Controller Overview
- Kiltech controller setup
- Software installation
- Data retrieval
- Chiller component overview
- Factory tour/chiller test run

#### Day 3

- DTC Service Monitoring Tool (SMT) Installation
- STC SMT Overview
- Compressor Troubleshooting
- Technical Literature Familiarization
- Smardt Forms and Procedures

#### Day 4

- Hands on time

## Form Technical Training Enrollment

### Contractor

Company Name: \_\_\_\_\_ Type: OEM/SRS  
 Contact Name: \_\_\_\_\_  
 Street: \_\_\_\_\_ City: \_\_\_\_\_ State/Province: \_\_\_\_\_  
 Postal Code: \_\_\_\_\_ Office #: \_\_\_\_\_ Fax #: \_\_\_\_\_  
 Training Dates: \_\_\_\_\_ PO#: \_\_\_\_\_ Date: 24-Jan-17  
**Pre-Reqs Met:** Contractor | Tech | Computer

### Applicants

#1 Title: \_\_\_\_\_  
 Name: \_\_\_\_\_  
 Cell #: \_\_\_\_\_ Email: \_\_\_\_\_  

Smardt Experience:	None	Some	Significant
DTC Experience:	None	Some	Significant
Kiltech Experience:	None	Some	Significant

#2 Title: \_\_\_\_\_  
 Name: \_\_\_\_\_  
 Cell #: \_\_\_\_\_ Email: \_\_\_\_\_  

Smardt Experience:	None	Some	Significant
DTC Experience:	None	Some	Significant
Kiltech Experience:	None	Some	Significant

#3 Title: \_\_\_\_\_  
 Name: \_\_\_\_\_  
 Cell #: \_\_\_\_\_ Email: \_\_\_\_\_  

Smardt Experience:	None	Some	Significant
DTC Experience:	None	Some	Significant
Kiltech Experience:	None	Some	Significant

#4 Title: \_\_\_\_\_  
 Name: \_\_\_\_\_  
 Cell #: \_\_\_\_\_ Email: \_\_\_\_\_  

Smardt Experience:	None	Some	Significant
DTC Experience:	None	Some	Significant
Kiltech Experience:	None	Some	Significant

#5 Title: \_\_\_\_\_  
 Name: \_\_\_\_\_  
 Cell #: \_\_\_\_\_ Email: \_\_\_\_\_  

Smardt Experience:	None	Some	Significant
DTC Experience:	None	Some	Significant
Kiltech Experience:	None	Some	Significant

## Form Technical Training Enrollment

#6 Title: \_\_\_\_\_  
 Name: \_\_\_\_\_  
 Cell #: \_\_\_\_\_ Email: \_\_\_\_\_

Smartd Experience:	None	Some	Significant
DTC Experience:	None	Some	Significant
Kiltech Experience:	None	Some	Significant

#7 Title: \_\_\_\_\_  
 Name: \_\_\_\_\_  
 Cell #: \_\_\_\_\_ Email: \_\_\_\_\_

Smartd Experience:	None	Some	Significant
DTC Experience:	None	Some	Significant
Kiltech Experience:	None	Some	Significant

#8 Title: \_\_\_\_\_  
 Name: \_\_\_\_\_  
 Cell #: \_\_\_\_\_ Email: \_\_\_\_\_

Smartd Experience:	None	Some	Significant
DTC Experience:	None	Some	Significant
Kiltech Experience:	None	Some	Significant

#9 Title: \_\_\_\_\_  
 Name: \_\_\_\_\_  
 Cell #: \_\_\_\_\_ Email: \_\_\_\_\_

Smartd Experience:	None	Some	Significant
DTC Experience:	None	Some	Significant
Kiltech Experience:	None	Some	Significant

#10 Title: \_\_\_\_\_  
 Name: \_\_\_\_\_  
 Cell #: \_\_\_\_\_ Email: \_\_\_\_\_

Smartd Experience:	None	Some	Significant
DTC Experience:	None	Some	Significant
Kiltech Experience:	None	Some	Significant

#11 Title: \_\_\_\_\_  
 Name: \_\_\_\_\_  
 Cell #: \_\_\_\_\_ Email: \_\_\_\_\_

Smartd Experience:	None	Some	Significant
DTC Experience:	None	Some	Significant
Kiltech Experience:	None	Some	Significant

## Form Technical Training Enrollment

#12

Title: \_\_\_\_\_

Name: \_\_\_\_\_

Cell #: \_\_\_\_\_ Email: \_\_\_\_\_

Smardt Experience:	None	Some	Significant
DTC Experience:	None	Some	Significant
Kiltech Experience:	None	Some	Significant