

# Form

## Technical Training Enrollment

### Contents

Syllabus.....	2
Summary .....	2
Location .....	2
Laptop Computer.....	2
Cost.....	2
Cancellation Policy .....	2
Contractor Pre-Requisites.....	3
Technician Pre-Requisites .....	3
Technician Preferences .....	3
Course Outline.....	3
Day 1.....	3
Day 2.....	3
Day 3.....	3
Form.....	4
Smartd Sales Representative .....	4
Contractor.....	4
Applicants .....	4

## Form Technical Training Enrollment

### Syllabus

#### Summary

The Smardt Technical Training course is designed to equip technicians with the skills necessary to start 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 trainer on Smardt, Kiltech, or DTC equipment. 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 pre-requisites 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  
[productsupport@smartd.com](mailto:productsupport@smartd.com)  
[www.smartd.com/training](http://www.smartd.com/training)

#### Laptop Computer

Participants are required to bring a laptop computer that either runs on or can emulate Microsoft's Windows XP 32 bit Operating System (OS) as well as open PDF and MS Office documents.

Participants must also have access to and be able to operate a mobile internet device when servicing Smardt equipment.

#### Cost

No. of Trainees:	1-2	3-4	5-6	7-10
Registration Fee:	\$1350 ea.	*\$1200 ea.	*\$1050 ea.	*\$900 ea.

All figures are in US dollars, are inclusive of all applicable taxes, and are per person per company. Travel, accommodations, and transportation are the responsibility of the participants. Upon request Smardt will provide hotel recommendations.

\*Discounts apply only for reservations made 30 calendar days in advance.

#### Cancellation Policy

A cancellation fee of 30% will apply if attendance is cancelled within 14 calendar days of a scheduled course, 60% if cancelled within 7 calendar days, and 100% if cancelled within 24 hrs or in the case of an absence.

Smardt reserves the right to cancel a scheduled course if enrollment is insufficient. Smardt will provide written notice of its intention to cancel a minimum of two weeks prior to the scheduled course date. 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  $\bar{V}$ )
  - Measuring amperage ( $\tilde{A}$  and  $\bar{A}$ )
  - Measuring milli-amperage ( $m\tilde{A}$  and  $m\bar{A}$ )
  - Measuring continuity ( $\text{---}$ )
  - Measuring diodes ( $\rightarrow$ )
  - Measuring capacitance ( $\text{+}$ )

### Technician Preferences

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

### Course Outline

The three 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
- Kiltech Protocol Converter Setup
- Technical Literature Familiarization
- Smardt Forms and Procedures

## Form Technical Training Enrollment

### Form

#### Smartd Sales Representative

Company Name: \_\_\_\_\_  
Contact Name: \_\_\_\_\_  
Street: \_\_\_\_\_ City: \_\_\_\_\_ State/Province: \_\_\_\_\_  
Postal Code: \_\_\_\_\_ Office #: \_\_\_\_\_ Fax #: \_\_\_\_\_

#### Contractor

Company Name: \_\_\_\_\_ Type: OEM/SRS  
Contact Name: \_\_\_\_\_  
Street: \_\_\_\_\_ City: \_\_\_\_\_ State/Province: \_\_\_\_\_  
Postal Code: \_\_\_\_\_ Office #: \_\_\_\_\_ Fax #: \_\_\_\_\_  
Training Dates: \_\_\_\_\_ PO#: \_\_\_\_\_ Date: 11-Oct-11  
Requirements Met: Contractor | Tech | Computer

#### Applicants

#1	Name: _____	Title: _____		
	Cell #: _____	Email: _____		
Smartd Experience:	None	Some	Significant	
DTC Experience:	None	Some	Significant	
Kiltech Experience:	None	Some	Significant	
#2	Name: _____	Title: _____		
	Cell #: _____	Email: _____		
Smartd Experience:	None	Some	Significant	
DTC Experience:	None	Some	Significant	
Kiltech Experience:	None	Some	Significant	
#3	Name: _____	Title: _____		
	Cell #: _____	Email: _____		
Smartd Experience:	None	Some	Significant	
DTC Experience:	None	Some	Significant	
Kiltech Experience:	None	Some	Significant	
#4	Name: _____	Title: _____		
	Cell #: _____	Email: _____		
Smartd Experience:	None	Some	Significant	
DTC Experience:	None	Some	Significant	
Kiltech Experience:	None	Some	Significant	

## Form Technical Training Enrollment

#5	Name: _____	Title: _____	
	Cell #: _____	Email: _____	
Smardt Experience:	None	Some	Significant
DTC Experience:	None	Some	Significant
Kiltech Experience:	None	Some	Significant
#6	Name: _____	Title: _____	
	Cell #: _____	Email: _____	
Smardt Experience:	None	Some	Significant
DTC Experience:	None	Some	Significant
Kiltech Experience:	None	Some	Significant
#7	Name: _____	Title: _____	
	Cell #: _____	Email: _____	
Smardt Experience:	None	Some	Significant
DTC Experience:	None	Some	Significant
Kiltech Experience:	None	Some	Significant
#8	Name: _____	Title: _____	
	Cell #: _____	Email: _____	
Smardt Experience:	None	Some	Significant
DTC Experience:	None	Some	Significant
Kiltech Experience:	None	Some	Significant
#9	Name: _____	Title: _____	
	Cell #: _____	Email: _____	
Smardt Experience:	None	Some	Significant
DTC Experience:	None	Some	Significant
Kiltech Experience:	None	Some	Significant
#10	Name: _____	Title: _____	
	Cell #: _____	Email: _____	
Smardt Experience:	None	Some	Significant
DTC Experience:	None	Some	Significant
Kiltech Experience:	None	Some	Significant