

# 2020 COURSE DIRECTORY

## TA INSTRUMENTS MALAYSIA IN-HOUSE TRAINING COURSES



**TA Instruments – a Division of Waters Pacific Pte. Ltd.**

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[Map and Directions](#)



## LEGEND

- Any new or existing user looking for basic theory, calibration information, and/or diverse application examples. Recommended to have a minimum of one-month experience using the instrument and have attended the operational training given by service engineer, in order to get the most benefit out of this course.
- Any new or existing user looking for advanced techniques and/or application examples, ways of optimization, maintenance & precautions. It is recommended for attendees with a minimum of two-month experience using the instruments and have attended the Theory & Applications Course, in order to get the most benefit out of this course.

## DSC THEORY & APPLICATIONS COURSE (BASIC)

This training course consists of two sessions, lecture and hands-on. Lecture-based session is designed around the Q-series and Discovery series instruments. Hands-On session covers the New Discovery DSC analyzer. The course will cover:

- Theory of operation
- Instrumentation
- Calibration
- Applications
- Experimental parameters
- Software operation
- Running Samples
- Data Analysis & Interpretation

This one-day training course will be held in the classroom and lab, in a small group setting of no more than 8 attendees. Attendees will have an opportunity to set up experiments on the instruments, prepare samples and analyze data.

Attendees are welcome to bring samples along. In the event if we cannot complete all samples, we could discuss them. Samples can include polymers, dispersions, and calibration materials.

TIME	FEES	COURSE CODE	RELEVANCE
9.00 AM - 5.00 PM	RM 300*	999801.005	● ○

## MDSC THEORY & APPLICATIONS COURSE (ADVANCED)

This training course is a lecture-based session. It is designed around the Discovery and Q-series instruments. The course will cover:

- Overview of MDSC Theory
- Optimization of MDSC experiment
  - Instruments Calibrations
  - Sample and Instruments Preparation
- Interpretation of Unexpected Events Observed in DSC Data
- Advanced DSC techniques:
  - Heat Capacity
  - Modulated DSC & Applications
  - Optimization of Modulated DSC experiment
- Experimental Conditions and their effects
- Data Reduction and Presentation

This one-day course will be held in the classroom with no more than 15 attendees.

TIME	FEES	COURSE CODE	RELEVANCE
9.00 AM - 5.00 PM	RM 500*	999801.024	○



### TGA THEORY & APPLICATIONS COURSE (BASIC)

This training course consists of two sessions, lecture and hands-on. Lecture-based session is designed around the Q-series and Discovery series instruments. Hands-On session covers the New Discovery TGA analyzer. The course will cover:

- Theory of operation
- Instrumentation
- Calibration
- Applications
- Experimental parameters
- Software operation
- Running Samples
- Data Analysis & Interpretation

This one-day training course will be held in the classroom and lab, in a small group setting of no more than 8 attendees. Attendees will have an opportunity to set up experiments on the instruments, prepare samples and analyze data.

Attendees are welcome to bring samples along. In the event if we cannot complete all samples, we could discuss them. Samples can include polymers, dispersions, and calibration materials.

TIME	FEES	COURSE CODE	RELEVANCE
9.00 AM - 5.00 PM	RM 300*	999801.007	<input checked="" type="radio"/> <input type="radio"/>

### TGA THEORY AND APPLICATIONS (ADVANCED)

This training course is a lecture-based session. It is designed around the Discovery and Q-series instruments. The course will cover:

- Overview of TGA Theory
- Optimization of TGA experiment
- Maintenance and Precautions
- Advanced TGA techniques:
  - Hi-Res TGA
  - Automated Stepwise Isothermal
  - TGA Decomposition Kinetics
  - Evolved Gas Analysis

This one-day training course will be held in the classroom with no more than 15 attendees. Training materials will be provided.

TIME	FEES	COURSE CODE	RELEVANCE
9.00 AM - 5.00 PM	RM 500*	999801.022	<input type="radio"/>

## RHEOLOGY THEORY & APPLICATIONS COURSE

This training course consists of two sessions, lecture and hands-on. Lecture-based session is designed around the AR-series and Discovery series rheometers. Hands-On session covers the TRIOS and Discovery Hybrid Rheometer. The course will cover:

- Theory of operation
- Instrumentation
- Calibration
- Applications
- Experimental parameters
- Software operation
- Running Samples
- Data Analysis & Interpretation

This one-day training course will be held in the classroom and lab, consisting of a small group setting of no more than 8 attendees. Attendees will have an opportunity to set up experiments on the instruments, prepare samples and analyze data.

Attendees are welcome to bring samples along. In the event if we cannot complete all samples, we could discuss them. Samples can include polymers, dispersions, and calibration materials.

TIME	FEES	COURSE CODE	RELEVANCE
9.00 AM - 5.00 PM	RM 300*	999801.008	● ○

## CALENDAR

*Dates subject to change*

COURSE	MARCH	JUNE	SEPTEMBER	DECEMBER
DSC Theory & Applications (Basic)	16 <sup>th</sup>	15 <sup>th</sup>	07 <sup>th</sup>	14 <sup>th</sup>
DSC Theory & Applications (Advanced)	17 <sup>th</sup>	16 <sup>th</sup>	08 <sup>th</sup>	15 <sup>th</sup>
TGA Theory & Applications (Basic)	18 <sup>th</sup>	17 <sup>th</sup>	09 <sup>th</sup>	16 <sup>th</sup>
TGA Theory & Applications (Advanced)	19 <sup>th</sup>	18 <sup>th</sup>	10 <sup>th</sup>	17 <sup>th</sup>
Rheology Theory & Applications	20 <sup>th</sup>	19 <sup>th</sup>	11 <sup>th</sup>	18 <sup>th</sup>





## REGISTRATION FORM MALAYSIA

Kindly fill out the following form if you are interested to join this training course and email it to [Rachel\\_Loh@waters.com](mailto:Rachel_Loh@waters.com). Closing date is one week prior to the training date.

SALUTATION:

FIRST NAME:

LAST NAME:

COMPANY/UNIVERSITY/INSTITUTION:

SCHOOL/DEPARTMENT:

REGISTRATION TYPE:

NEW SYSTEM PURCHASE:

SERIAL NUMBER & COMMISSIONING DATE:

OTHERS:

EMAIL:

TELEPHONE:

OFFICE:

MOBILE:

COURSE NAME:

COURSE DATE:

*Seats are limited, registration is based on a first come, first served basis. Please indicate the date preferred.*

*Lunch and refreshments will be provided. If you have any dietary restriction (vegetarian/halal/no beef/no seafood), please indicate below:*

*\*Fee waiver is valid for 12 months from the date of a new system installation.*