



**Ascendent Technology Sdn. Bhd.**  
(1093652-W)



Claimable



Claimable



## HEAT ENCLOSURE CALIBRATION (Oven, Furnace, Freezer & Incubator) (Competency Training)

### **PROGRAMME OVERVIEW:**

This calibration training module is designed based on EURAMET cg-20 to meet ISO quality management system requirement include ISO 9001, ISO14001, ISO/IATF 16949, ISO 22000, ISO/IEC 17025, GMP, HACCP and other quality management systems. This module includes the evaluation of measurement uncertainty base on ISO Guide to the expression of uncertainty in measurement (GUM).

### **TARGET GROUP:**

Quality Managers, Technical Managers, Laboratory Managers, Supervisors, Chemist, Engineer, Signatories of test reports & certificates, Laboratories Personnel.

### **OBJECTIVE:**

At the end of the course, participants are expected to:

- 1) Understand temperature characteristics of an enclosure (space inside the oven), spatial variation and temporal variation.
- 2) Able to install sensors in order to extract the appropriate information.
- 3) Perform calibration independently
- 4) Perform necessary calculations include uncertainty estimation based on ISO Guide [according to the model given only]
- 5) Able to generate ISO quality management system accepted calibration report

**CONTENT:**

- 1) Principle of metrology and ISO requirement on calibration.
- 2) Understand the equipment and Correct method of handling.
  - a) Temperature recorder.
  - b) Thermocouple sensor
  - c) Oven, incubator, furnace, water bath
- 3) Care and Maintenance
  - a) Precautions
  - b) Pre Calibration Inspection
  - c) Environment
- 4) Calibration
  - a) Step by step procedure based on EURAMET cg-20
  - b) Step by step installation of sensors and data collection.
  - c) Practice of at least 2 models, step-by-step guiding on calibration procedure
- 5) Estimate uncertainty of test base on ISO Guide
- 6) Uncertainty calculation and presenting calibration result.
- 7) Form and formula
- 8) Work example

**METHODOLOGY :**

Lectures, discussion, demonstration, hands-on practice and practical exercises

**CERTIFICATE :**

Participants are required to complete a project usually at the end of training or within 2 weeks of completion of the training

- ✓ Certificate of competency - achieves score points above 70 %
- ✓ Certificate of attendance - score points below 70 % or no submission of assessment

**REMARK:**

- 1) Candidate is required to complete the assessment during training or must submitting the completed assessment within 2 weeks after the training is completed.
- 2) Certificate will be issue based on score point in the assessment.
- 3) Candidate with poor score is advisable to re-seat the training and assessment.

## REGISTRATION FORM (E010):

### PUBLIC TRAINING

**Course Fee** : RM 2,100 Per Pax  
**Training Date** : Refer to Training Calendar  
**Venue** : **Ascendent Training Room**  
**Duration** : 2 Days  
**Time** : 9:00 AM - 5:00 PM  
**Venue** : Ascendent Technology Sdn Bhd  
**HRDF** : **SBL - Khas**

Participant : Mr / Ms .....  
 Designation : .....  
 NRIC : .....  
 Mobile No. : .....  
 Email : .....

### IN-HOUSE TRAINING

**Course Fee** : RM 6,000 Per Day  
**Duration** : 2 Days  
**Time** : 9:00 AM - 5:00 PM  
**HRDF** : **SBL - Khas**  
**Maximum No.** : 5 - 25 Candidates

Participant : Mr / Ms.....  
 Designation : .....  
 NRIC : .....  
 Mobile No. : .....  
 Email : .....

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 NRIC : .....  
 Mobile No. : .....  
 Email : .....

### CANCELLATION / POSTPONEMENT POLICY

1. Ascendent Technology Sdn.Bhd. reserves the right to cancel, postpone or make any changes to the venue and training dates due to unavoidable circumstances.
2. Reservation can be made by telephone or email, but will only be confirmed upon the received of completed registration form and payment.
3. Please do not make any travel arrangements until you have received written confirmation for your registration from us.
4. No cancellation is allowed but a candidate replacement can be arranged.
5. For confirm cancellation: 7 days notice prior to commencement will subjected to RM250 service charge. If less than 7 days notice, there will be no refund.
6. Confirm postponement for in-house training less than 14 days notice prior to commencement will subjected to 50% service charge on total invoice.

Participant : Mr / Ms.....  
 Designation : .....  
 NRIC : .....  
 Mobile No. : .....  
 Email : .....

### PAYMENT DETAILS

All cheques should be crossed and made payable to: **ASCENDENT TECHNOLOGY SDN BHD** Bank A/C No. **Maybank** 5127-6360-6820.

Admittance will be permitted upon receipt of full payment 2 weeks before the course is conducted.

Training certificate will be awarded upon received of full payment

### FOR HR DEPARTMENT

|                   |                          |  |
|-------------------|--------------------------|--|
| Company Name:     | Contact Person: Mr / Ms: |  |
| Address:          | Designation:             |  |
|                   | Department:              |  |
|                   | Email:                   |  |
|                   | Mobile No:               |  |
|                   | Signature:               |  |
| Training Date:    |                          |  |
| Telephone:        |                          |  |
| Type of Industry: |                          |  |