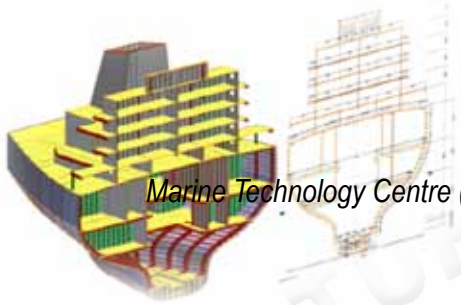




SHELL EXPANSION & MATERIAL TAKE-OFF



Marine Technology Centre (MTC) is a CLASS A Training Provider under HRDF (Reg. No 0902) | SBL Scheme

COURSE OBJECTIVE

At the end of this short course, the participants are expected to be able to:

- Prepare shell expansion drawing correctly based on the given lines plan and construction drawing of a ship.
- Determine the approximate area, weight and centre of gravity of plates and stiffening members of the expanded ship hull.
- Prepare the material lists that are required for hull construction.

COURSE METHODOLOGY

Lectures (power points and notes), hands on exercise based on actual ship drawing.

COURSE ASSESSMENT

Test and assignments based on hands on exercise (in group)

WHO SHOULD ATTEND

Draughtsman, technicians, design engineers and design managers

COURSE CONTENT

No.	Topic	Duration (hours)
1.	Introduction to shell expansion drawing & material take off	2
2.	Terms and definitions	2
3.	Understanding and measuring data form lines plan and construction drawing	2
4.	Shell expansion drawing procedure	2
5.	Hands on - shell expansion drawing exercise	8
6.	Area, weight and CG calculation procedure	3
7.	Hands on - area, weight and cg calculation	5
8.	Material take off procedure	2
9.	Hands on - preparation material take off list	4
10.	Overall discussion	2

COURSE TUTOR

1. Dr. Koh Kho King
2. Tuan Haji Yahya bin Samian

For Customised / In-house Training Programmes, please contact : MISS NURUL at +607 553 5708



Short Course Secretariat, Marine Technology Centre (P22),

Universiti Teknologi Malaysia, 81310 UTM Johor Bahru, MALAYSIA

Tel : +607 553 5708, Fax : +607 557 4710, Website : <http://www.mtc.utm.my/short-course/>

COURSE DETAILS

Course Name : _____

Date : _____

(Any inquiry for accomodation please contact Miss Nurul)

No.	Name of Participant	Mobile No.	E-mail Address	NRIC (for HRDF Claim)	Fee (RM)

*(Please attach a separate list if necessary)***Total** **SPONSORSHIP :** Self-Sponsored Company-Sponsored**INDIVIDUAL / COMPANY DETAILS** (for issuance of invoice)

Organisation : _____

Co. Reg. No. * : _____ **if applicable*

Address : _____

Contact Person : _____

Tel No. : _____ Designation : _____

Fax No. : _____ E-mail : _____

Cancellations received in writing 30 days prior to the programme are eligible for a refund, subject to a cancellation fee. Cancellations received less than 14 days from the date of the programme are not eligible for a refund. However, substitute attendees are welcome. Please note that the speakers and topics are confirmed at the time of printing. However, circumstances beyond the control of the organisers may necessitate substitutions or cancellations of speakers and/or topics. As such MTC reserves the right to alter or modify the advertised speakers and/or topics

Authorised Signature * : _____ Date : _____

Name : _____ Designation : _____

* Head of Department / Approving Manager

Company Stamp

MODE OF PAYMENT

A. Checque or Bank Draft

Checque No. / Bank Draft No. : _____ Bank / Branch : _____

**All crossed cheque / bank draft should be made payable to Account Name : BENDAHARI UTM
Account Number : 8006053536 | Bank Name : CIMB Bank Berhad | Branch : UTM Skudai**

B. Telegraphic Transfer / Local Order

Transaction Date : _____ Reference Number : _____

| *Terms & Conditions Apply* |
For futher information, please contact :
 Short Course Secretariat, Marine Technology Centre (P22),
 Universiti Teknologi Malaysia, 81310 UTM Johor Bahru, MALAYSIA
 Tel : +607 553 5708 | Fax : +607 557 4710 | E-mail : mtc@utm.my
 Website : <http://www.mtc.utm.my/short-course/>