

MODULAR COURSES

CODE	QA 01
COURSE TITLE	BASIC METROLOGY- 1D MEASUREMENT CONDUCT ONE-DIMENSIONAL (1D) MEASUREMENT
DURATION (HOURS)	16
FEES (RM)	300
HRDB SCHEME	SBL
CAPACITY (MIN)	12
COURSE INTRODUCTION	One-dimensional measurement measuring technique, standard and specification - Linear measurement - Angular measurement
PRACTICAL	1.1 Measure workpiece 1.2 Select and use instrument required measuring a given work 1.3 Read metric and imperial reading 1.4 Convert metric to imperial or vice-versa 1.5 Determine types of measurement report 1.6 Plan and design report format 1.7 Record data
COURSE CONTENTS (DETAILS)	1.1 Related one-dimensional measuring tools 1.2 One-dimensional measurement measuring technique, standard and specification - Linear measurement - Angular measurement 1.3 Collecting and recording data method 1.4 Types of measurement records 1.5 Type of report format
PIC	MR BADRUL KHIZAM BIN SALIMON

CODE	QA 02
COURSE TITLE	INTERMEDIATE METROLOGY - 2D CONDUCT CALIBRATION ON TWO DIMENSIONAL (2D) MEASURING TOOLS
DURATION (HOURS)	16
FEES (RM)	300
HRDB SCHEME	SBL
CAPACITY (MIN)	12
COURSE INTRODUCTION	Type of calibration standard used for two dimensional (2D) measuring tools -Select suitable standard for calibration
PRACTICAL	1.1 Select suitable standard for calibration 1.2 Select calibration tools 1.3 Use the calibration tools 1.4 Check instrument error - Alignment - Loose spindle - Worn out mechanism 1.5 Perform calibration on measuring tools 1.6 Check / read visually 1.7 Calculate the measuring tools accuracy

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COURSE CONTENTS (DETAILS)	1. Type of calibration standard used for two dimensional (2D) measuring tools 2. Different type of calibration tools 3. Different usage of calibration tools 4. Principal of co-ordinate measurement x-y axis 5. Method of identifying instrument error 6. Identify method of checking instrument manually for defect: - Spindle alignment - Distortion - Deformity
PIC	MR BADRUL KHIZAM BIN SALIMON

CODE	QA 03
COURSE TITLE	ADVANCED METROLOGY - 3D MEASUREMENT CONDUCT CALIBRATION ON THREE DIMENSIONAL (3D) MEASURING TOOLS
DURATION (HOURS)	16
FEES (RM)	300
HRDB SCHEME	SBL
CAPACITY (MIN)	12
COURSE INTRODUCTION	Principle of co-ordinate measurement on 3 axis (x, y, z) , 3D measuring tools and Calibration schedule
PRACTICAL	1. Interpret calibration manual and standard 2. Select appropriate calibration tool 3. Set up calibration tool according to calibration requirement 4 Perform calibration on machine tool 5. Check conformance of machine accuracy
COURSE CONTENTS (DETAILS)	1. 3D measuring tools 2. Calibration schedule and Appropriate calibration tools 3. Accuracy of measuring and calibration tools to suite standard 4. Method of identify 3D measuring tool errors 5. Comparison with master/ standard 6. Calibration procedure and standard 7. Machine performance and accuracy 8. Control of non conformance
PIC	MR BADRUL KHIZAM BIN SALIMON

CODE	QA 04
COURSE TITLE	PERFORM BASIC PRODUCT INSPECTION CONDUCT INSPECTION PROCEDURE
DURATION (HOURS)	16
FEES (RM)	240
HRDB SCHEME	SBL
CAPACITY (MIN)	12
COURSE INTRODUCTION	CONDUCT INSPECTION PROCEDURE

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PRACTICAL	1.1 Select various sampling method 1.2 Determine lot of size 1.3 Formulate random numbering 1.4 Understand operation characteristic curve 1.5 Detect visible defect for deformity scratches deterioration etc 1.6 Clean product prior to inspection using cleaning agent/ material 1.7 Identify soaking period for precision measurement (temperature and humidity)
COURSE CONTENTS (DETAILS)	1. Established procedure for inspection and testing 2. Understand quality planning 3. Product verification for confirming to specification 4. Stringency of receiving inspection 5. Inspect and test in process product by specified procedure
PERSON IN CHARGE	MR BADRUL KHIZAM BIN SALIMON

CODE	QA 05
COURSE TITLE	PERFORM TESTING AND INSPECTION - SELECT TEST AND TESTING METHOD AND EQUIPMENT
DURATION (HOURS)	16
FEES (RM)	300
HRDB SCHEME	SBL
CAPACITY (MIN)	12
COURSE INTRODUCTION	SELECT TEST AND TESTING METHOD AND EQUIPMENT
PRACTICAL	1. Posses adequate eye vision 2. Identify type of surface defects and material damages 3. Prepare and verify action 4. Interpret test result and prepare report 5. Prepare test specimen 6. Perform test and operate testing equipment according to testing standard and procedure
COURSE CONTENTS (DETAILS)	1. Visual surface inspection technique 2. Acceptance and rejection criteria 3. Physical and mechanical properties of materials (Ambient, cryogenic and elevated temperature) 4. Type of hardness test procedure and hardness charts - Brinell - Rockwell - Vickers 5. Strength of materials 6. Tensile strength principles
PERSON IN CHARGE	MR BADRUL KHIZAM BIN SALIMON