



Microelectronics and Nanotechnology - Shamsuddin Research Centre (MiNT-SRC),
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Website: <http://mint.uthm.edu.my>

NANOINDENTER BOOKING FORM
BRUKER HYSITRON TI PREMIER
STANDARD LOAD FUNCTION TEST

DATE : _____

NAME : _____

POSITION : _____

COMPANY NAME : _____

EMAIL ADDRESS : _____

ADDRESS : _____

PHONE NO (OFFICE) : _____ PHONE NO (MOBILE) : _____

SAMPLE TYPE 1

Type of Sample	*DRIED SOLID THIN FILM ONLY _____
Sample Size	Length : _____ (mm) Thickness : _____ (mm) Width : _____ (mm) *Maximum: length x width = 2.5 cm x 2.5 cm. Preferred: 1.0 cm x 1.0 cm
Material of sample	_____
No of Sample	_____
Others, state	*Magnetic sample: YES/NO *Conductive sample: YES/NO * Sample with porous structure : YES/ NO *Sample in dry condition: YES / NO *Rough sample: YES/NO Roughness?

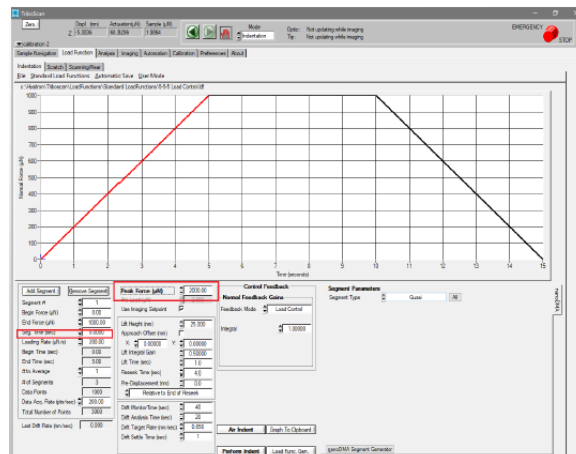
Do you know the required indentation force?	YES / NO
How much is the peak Indentation force required? (Within 8 mN only)	
How much hold time is required? (second)	

*Delete where necessary

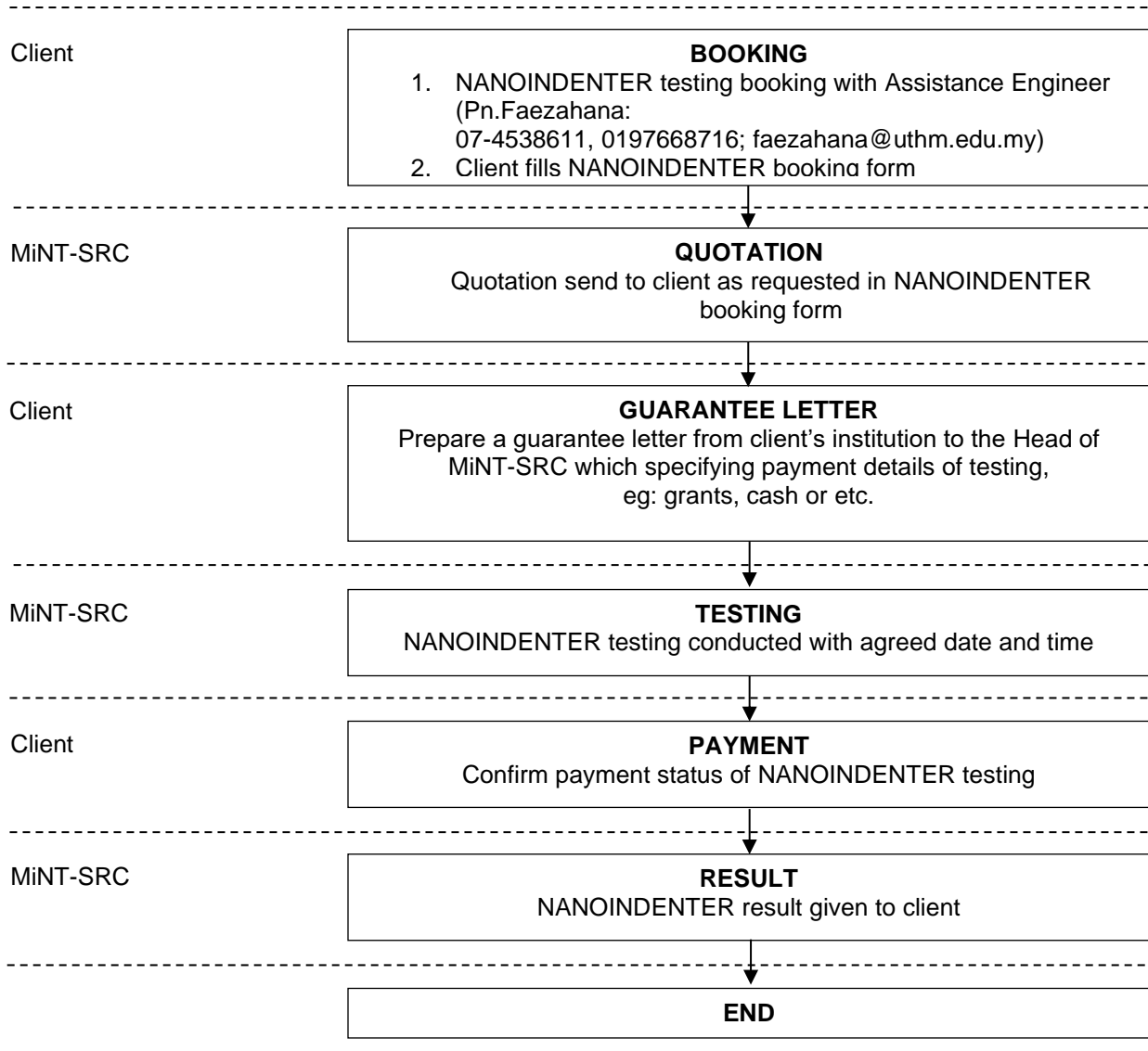
Note:

- Please add the number of box if it is not enough.
- Please fill this form and email to faezahana@uthm.edu.my and soon@uthm.edu.my
- Rate for Nanoindenter testing:
 - 1 sample with known indentation force: RM400/sample + gst 6%**
 - 1 sample with unknown indentation force: RM500/sample + gst 6%**
- Permission for using the Nanoindenter is given after approval or a guarantee of payment / payment completed.
- Prior to each test run, calibration with Hysitron Bruker's standard sample will be performed.
- Results that will be provided: i) An optical microscopy image of a sample surface
 - Single load-displacement curve (in the unit of nN/ μm) per single sample for known single indentation force and hardness value under single indent
 - Hardness (H) and reduced modulus (Er) in the unit of Pa for single indent

Example of standard load function:



NANOINDENTATION TESTING FLOWCHART



MiNT-SRC MAP

From Air Hitam exit highway

