

DEPARTMENT OF MECHANICAL ENGINEERING

Name of SOP	B1 Measurement of Force and Strain 2B2 experiment
Effective Date	April 14, 2004 Rev. January 21, 2008
Author	Joe Verhaeghe
Reason for SOP	Risk injury by dropping weights Pinch points
Approved by (supervisor)	Ron Lodewyks
Date reviewed by (JHSC)	February 13, 2008

Definitions

Terms	
acronyms	RMM – Risk Management Manual JHSC - Faculty of Engineering Joint Health and Safety Committee Chair - Chair of Mechanical Engineering EOHSS - Environmental Occupational Health & Safety Service

Requirements

Applicable OSHA regulations and / or codes of practice.
<ol style="list-style-type: none"> 1. OSHA code. 2. McMaster University Risk Management Policies
Training and competency.
<ol style="list-style-type: none"> 1. Training provided by technical staff in the Mechanical Engineering Department. 2. Competency is shown by the individual after training.

Description of the Task

Location and time of work	JHE-B109
Individuals and skills required	Students
Equipment and supplies required	Experiment setup for 2B2, Part B1
Personal protective equipment required	none
Sequential steps to complete the work safely.	
Precautions while adding and removing weights from and to the cantilever beam.	
<ol style="list-style-type: none"> 1. Keep weight inside the rim of the apparatus at all time. 2. Handle weights with two hands. CAUTION: Weights weigh 5 Kg 3. Keep fingers clear of positioning slots on weights CAUTION Pinch points 4. Place weights on storage bar while not in use. 	

Contingency Plan and Reporting

Accident / injury response
<ol style="list-style-type: none"> 1. Apply first aid as required 2. Notify Mechanical Engineering technical staff immediately 3. For all injuries complete a "Injury/Incident Report" and provide a copy to the Chair and EOHSS 4. In case of critical injury call security (dail 88). 5. In case of critical injury notify EOHSS immediately, ext 24352
Spill response none
Equipment shutdowns. None

Environmental Responsibility

Waste disposal procedures none
Building air quality

References (OHSA/ regulations, EPA and Municipal environmental regulations, McMaster University Program/ Policy, Material Data Sheets (MSDS).

1. RMM #301 Standard Operating Procedure
2. RMM #300 Safety Orientation and Training Program
3. RMM #309 Laboratory safety manual

Distribution

1. Trained teaching assistant who is the lab operator
2. Technical Staff of Mechanical Engineering
3. Mechanical Engineering Chair
4. Faculty of Engineering JHSC