Workshop on
Shock Design for Civil Defence Shelter in MRT Stations

BACKGROUND
Jointly organised by BCA Academy and BCA’s Special Functions Division’s Transit Shelter Engineering Dept (TSED), this workshop aims to provide an overview of the underlying principles and analytical methods including drop test methods to address shock design of support systems for architectural finishes, M&E services and equipment in MRT shelters. Participants will benefit from the sharing of case studies and worked examples on Shock Design for mounting of these features.

OBJECTIVES
The objectives of this workshop are to:
• explain the concepts of shock design and drop testing.
• provide an overview of the underlying principles and analytical methods to address shock design requirements for support systems in MRT shelters.
• explain the quasi-static design approach for fixings of architectural finishes, M & E services and equipment.
• equip the participants with the methodology of dynamic analysis of mountings of equipment.
• share with the participants some relevant case studies using worked examples.

WORKSHOP OUTLINE
1) Concepts of Shock Design in MRT Shelters
2) Shock Design for mounting of M&E services and equipment
3) Case studies
4) Shock Design for fixings of architectural finishes
5) Case studies

SPEAKERS PROFILE
MR WONG SIEW HENG, B.Eng (MECH)(HONS), P.Eng, SENIOR EXECUTIVE ENGINEER, TSED
Mr Wong graduated with a Bachelor of Engineering in Mechanical Engineering from Nanyang Technological University in 1996. He has been working on transit shelters since Aug 2002. His main duties involve regulating and advising on the incorporation of Mechanical systems, i.e. Environmental Control System (ECS), Fire Protection Systems (FPS), Water Supply, Sanitary and Drainage Systems (WSSDS) within the MRT CD shelters. As one of his core functions, he is responsible for the regulatory review and advice on the shock design of supports for various mechanical services and equipment in such systems.

MR KHOO, B.Eng (CIVIL)(HONS), ENGINEER, TSED
Mr Khoo graduated from Nanyang Technological University in 2007 and is currently pursuing a part-time MSc (Civil Eng) course at NTU. Upon graduation, he joined Shimizu and worked as a planning engineer involved in the project management of a multi-million dollar condominium project in Palm Jumeirah, Dubai. In 2008, he joined LTA and was responsible for the supervision of tunnel works and subsequently the Buona Vista MRT station which is a Civil Defence shelter. Since joining BCA in 2010, Mr Khoo has been involved in regulating and advising on the CD Architectural requirements and CD Civil & Structural (C&S) design within the transit shelters in Circle Line Stage 4 & 5, Downtown Line 2 & 3 and Thomson Line. As one of his core functions, he is responsible for the regulatory review and advice on the shock supports design of the various architectural finishes and M&E services in such shelters.
Reservation may be made by fax, e-mail, post or by hand. To confirm the reservation, payment will have to be made before the seminar date via cheque, VISA or Nets/cash. No invoice will be issued. Walk-in applicants will only be admitted on the basis of seat availability and full payment. Please inform us in writing of any change in your registration, which is subject to administrative charges as shown below:

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- Request for replacement in writing, must reach BCA Academy before the commencement date of the seminar: No administrative charge
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- Request for withdrawal in writing, that reaches BCA Academy less than 2 weeks but more than 3 working days before the seminar date: 75% refund of seminar fee.
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BCA Academy reserves the right to amend the seminar details or cancel the seminar and fully refund the participants should unforeseen circumstances warrant it.

Workshop on Shock Design for Civil Defence Shelter in MRT Stations

Date: 30 November 2011  Fee (inclusive of GST): S$192.60 (Refreshments will be provided)
Time: 9.00am to 1.15pm
Venue: BCA Academy

Name of Participant          NRIC/Passport No:          Designation          HP no:          Email

Contact Person Particulars
Name: (Dr/Mr/Mrs/Ms)          Email:          Hp no:          Fax no:          Telephone No:

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Enquiries
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Registration
Seats are limited, registration is on a first-come, first served basis. Training places will be confirmed upon the payment of the seminar fees before the commencement date. Please fax application form to 6258-0558. Cheques with original application and supporting documents should be mailed to BCA Academy, 200 Braddell Road, Singapore 579700