

BCA Academy of the built environment



Presented by:
Harry Woon, Program Manager

The education and research arm of the Building and Construction Authority

**Welcome &
Good Afternoon to all**



Many prospects in this industry

Over 95% of Singapore are made of buildings



Many professionals required in the building cycle

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With many opportunities!



Up to
S\$29 – S\$34 bil

worth of contracts
projected to be awarded
annually for 2015

MAJOR PROJECTS IN THE PIPELINE



Project Jewel, Terminal 4 & 5



Greater Southern Waterfront



Public infrastructure
(Thomson & Eastern Region MRT lines)



Hospitals
(Outram/Sengkang/Woodlands)

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The active push for Singapore to go green has created a strong demand for a new “Green Collar” workforce.

BCA Academy extends the expertise in this field to our students to prepare them for the working world.

With growing commitment from the government and the industries to green our environment, I think there is a great opportunity for the graduates from DME(GBT). In fact 95% of students starting from our first batch have found employment.

The local news paper advertisements for job opportunities show that there is a growing demand from the aspiring students to join this program.



Mr. Unni

Program Manager, DME(GBT)

Look forward to meaningful & exciting careers



80% of buildings to be
green by 2030



**Target to build
pool of 20,000
green collar
professionals by
2020**

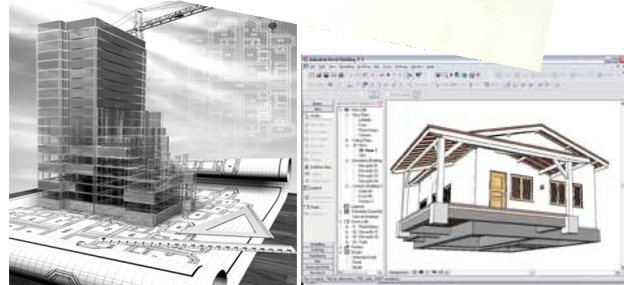
Industry is using more advanced construction technologies



More mechanisation



More off-site prefabrication



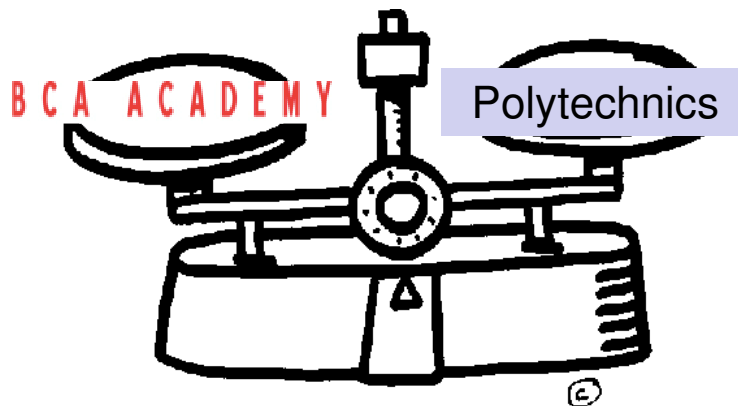
BIM is one of the key focus areas for DME Diploma Program

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BCA Academy diploma programmes are comparable to those offered in local Polytechnics*



*Source: National Recognition Information Centre for the United Kingdom (NARIC) 2012

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Diploma curriculum is based on specific industry needs

4

The only institution that has incorporated BIM into syllabus

All our diplomas incorporate modules on green building

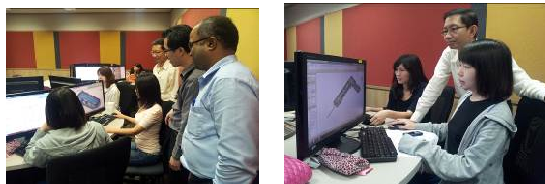
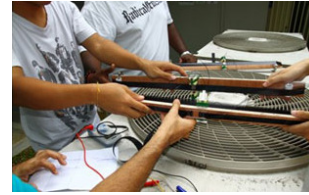
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Additional certificates awarded for DME (GBT)



6

Students are exposed to industry collaborations



Collaborate with HDB to produce drawings using BIM

PROPOSED RESTROOM DESIGN

B1



7

Prospects of our students

Starting



of our graduates

2,200/month onwards

Varies depending on the market situations



77%

of our graduates are employed within 3 months upon graduation**

**Source: BCA Academy graduate employment survey (2014)

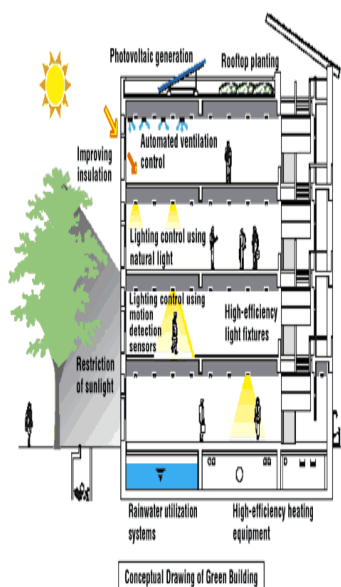
Diploma in Mechanical Engineering (Green Building Technology)

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Diploma in Mechanical Engineering (Green Building Technology)

Students will learn how to:

- Assist engineers in carrying out design, fabrication, modification and commissioning of green facilities
- Perform and effectively supervise the various M&E works.



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Course offered in DME (GBT) Diploma Programme

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Diploma in Mechanical Engineering (Green Building Technology)

- **Thrust Areas**
 - Foundation courses
 - (Maths, English, Life Skills, Basic Business Law etc)
 - Basic Mechanical Engineering Courses
 - Thermodynamics
 - Mechanics
 - Hydraulics
 - Air-conditioning
 - Electrical technology & Machines
 - Green Mark Manager
 - SCEM Courses
 - Building Information Modelling (**BIM**)

Diploma in Mechanical Engineering (Green Building Technology)

Career Prospects
Energy Specialist
Site Supervisor / Coordinator
Green Mark Manager
Associate Energy Manager

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Bursary / Awards available

BCA Academy Bursaries

- Singaporeans with household per capita income of below \$500 may apply

BCA Academy Achievement Awards

- Top student in Year 1 & 2 of each diploma programme receive \$2000
- Second top student in Year 1 & 2 receive \$1000

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BCA-INDUSTRY BUILT ENVIRONMENT DIPLOMA SCHOLARSHIP / SPONSORSHIP

- **Scholarship:**

- full course fee
- \$900 allowance per month
- serve minimum 2 year bond with sponsoring firm

- **Sponsorship:**

- annual allowance of \$7000
- serve minimum 2 year bond with sponsoring firm



http://www.buildingcareers.sg/builtenvironmentscholarship_diploma.aspx

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THANK
YOU!