AFEO Mid Term, Singapore
16 – 18 July 2017

The Institution of Engineers, Singapore

Education & Capacity Building Working Group

17 July 2017

Engineers Progression Pathway

IES partnered National Trades Union Congress (NTUC) U Associate to launch the national Engineers Progression Pathway to help both young and senior engineers move up the career ladder by equipping them with the necessary leadership skills, expertise in technology management, and making them future ready.

Young Engineers Leadership (YEL) Programme

Advanced Engineers Leadership (AEL) Programme

Young Engineers Leadership (YEL) Programme

- Aims to strengthen young engineers' competencies in the areas of technology management, leadership and soft skills.
- 1 day industry learning journey and 7 units of 1-day modules, taught by industry experts and C-suite speakers
- The 3rd YELP run concluded in May 2017; 456 engineers in total have benefited from the YEL Programme.

Advanced Engineers Leadership (AEL) Programme

- Launched on 25 April 2016 (Guest-of-Honour: Mr Chan Chun Sing, Secretary-General, NTUC)
- Aims to develop senior engineers in middle management to acquire advanced future-ready technology management and leadership competencies. Prepare them for higher responsibilities and roles in their respective organisations and to build their engineering careers.
- First run began 10 August 2016 with 24 participants - Small class size to encourage more input and interaction.
- Participants officially graduated from AELP on 16 January 2017.
- Next intake will commence on 31 August 2017

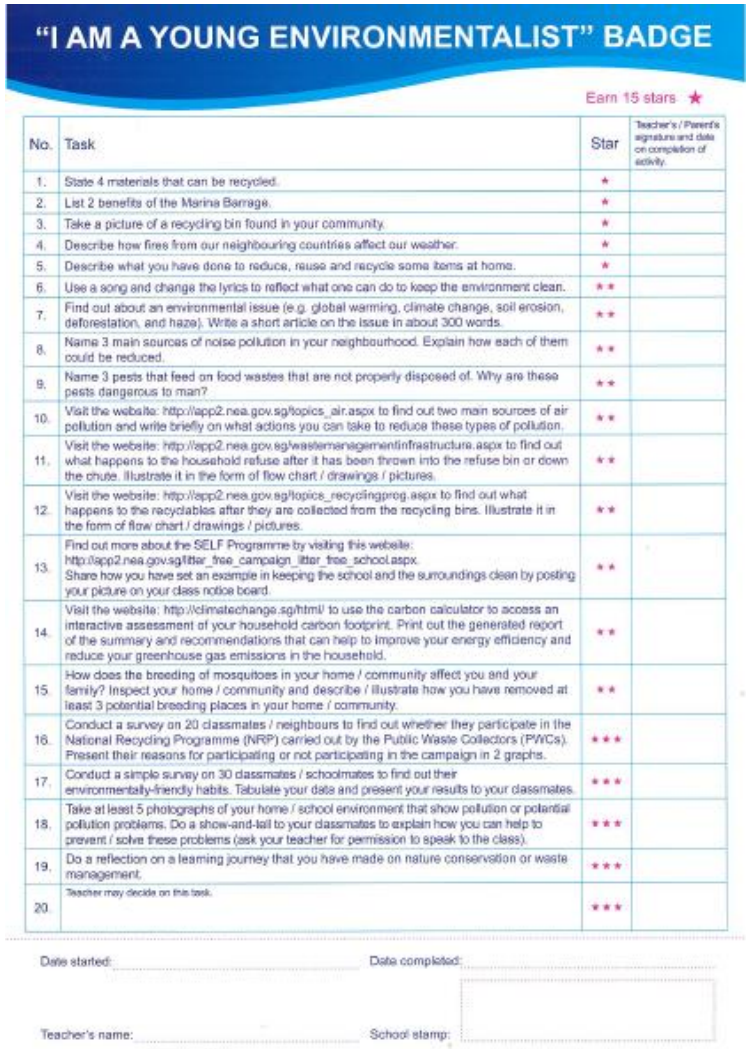
AELP Graduation Ceremony on 16 January 2017 with Mr. Chan Chun Sing

I am a Young Engineers Badge

- A collaboration with Science Centre to raise our younger generations' interest in engineering.
- Currently in the implementation stage, target to launch by December 2017
- Target group: Primary 3 – 6 students (8 – 12 years old)
- Comprises of a series of self-directed activities in various engineering disciplines where students will carry out the activities to earn enough stars to be certified a Young Engineer.
- Develops knowledge and skills, and encourages initiative and creativity.
- Students who complete the badge will be awarded a certificate and a badge pin.

Examples

Young Scientist Badge Activity Card (Front)



Young Scientist Badge Activity Card (Back)

Badge Pins for the different cards

Engineering Camp

- Another collaboration with Science Centre, the Engineering Camp is targeted at the lower secondary students (12 – 14 years old).
- 1 – 2 Days Themed Camp (currently in development stage)
- Target to launch during the coming December school holidays.
- Programs may include: hands-on projects, workshops, mentorship opportunities, industry excursions, competitions.
- Objective: To create the exposure that the students don't get on a daily basis, provide the opportunity to experience the different skill sets needed to be an engineer, enthusing the students' interest in engineering.

Thank You