

# Introduction

The need for accurate information of existing underground utilities

Mandate by the Malaysian Government to the Department of Survey and Mapping Malaysia (JUPEM) to compile underground utilities data.

Knowledge in utility mapping and tertiary education is still lacking

# Introduction

the 3 core disciplines i.e. Electrica and Electricity, Geology and Geophysics, and Survey Mapping.

The challenge of issue is to m

Recognising the issue, the Land Surveyors Board of Malaysia (LJT) and the Association of Authorised Land Surveyors Malaysia (PEJUTA) taken the initiative to offer a professional course in UUSDM to

its members. XXV International Federation of Surveyors Congress, Kuala Lumpur, Malaysia, 16 – 21 Jun

### Background

A committee comprising of LIT, PEJUTA, JUPEM and University of Technology of Malaysia (UTM) was set-up to design the course

The course design is to be in line with a Post-graduate standard level with addition of Professional practise input.

 The course is envisaged to have approximately 390 credit hours or equivalent to 25 study weeks.

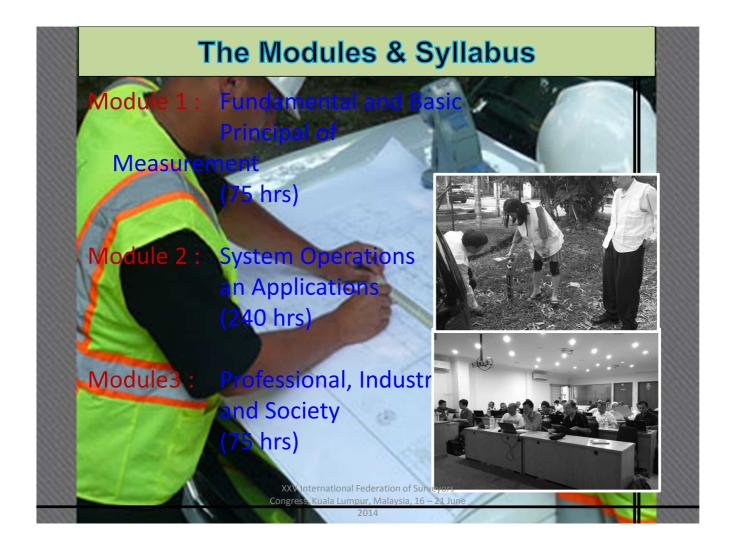
#### Background

The framework design is to provide fundamental and understanding, system operation and applications, and professional practise.

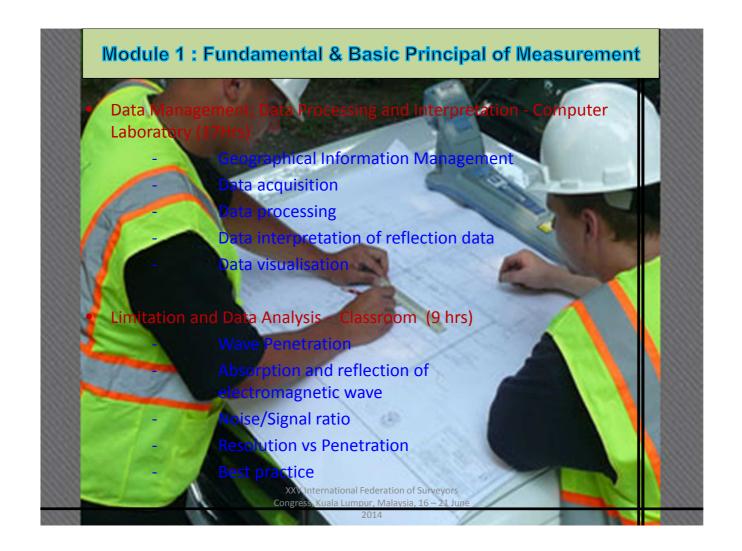
The quality, standard and recognition is regulated by accreditation requirements such as exam, coursework, report, competency test and demonstrate skills

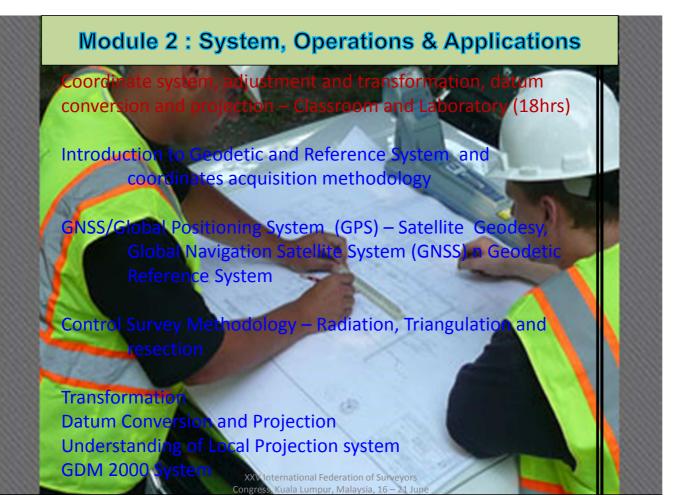
To complete a project paper/dissertation

ongress, Kuala Lumpur, Malaysia, 16 – 21 June



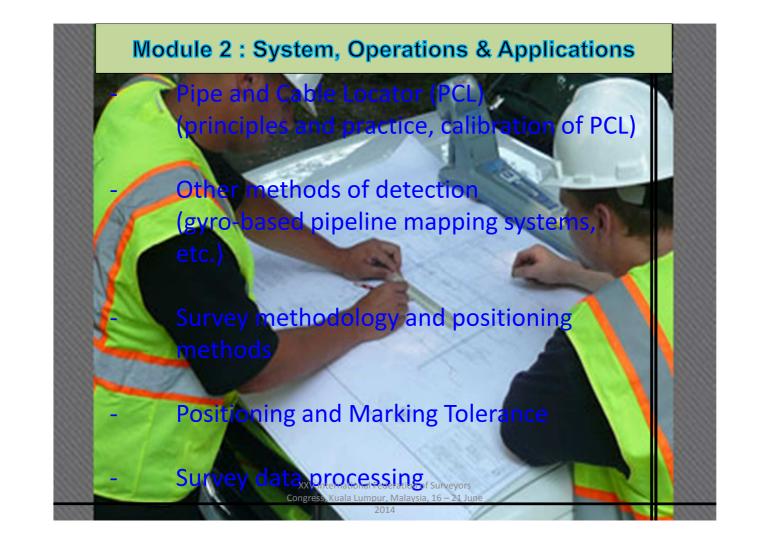


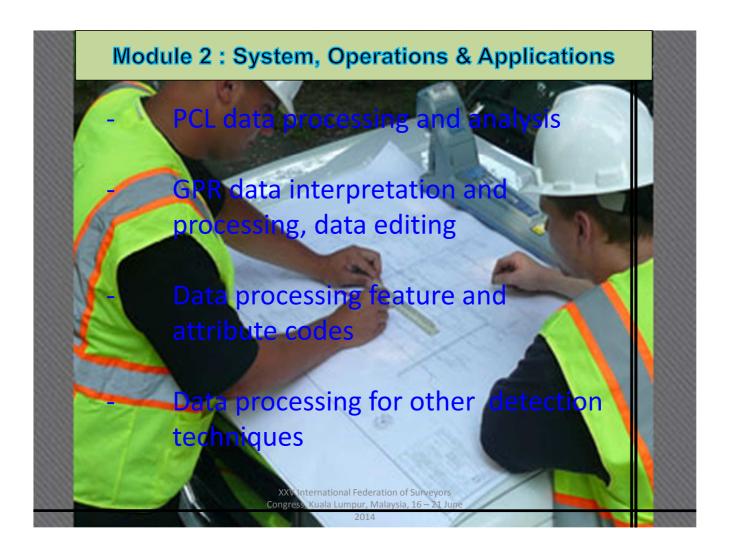




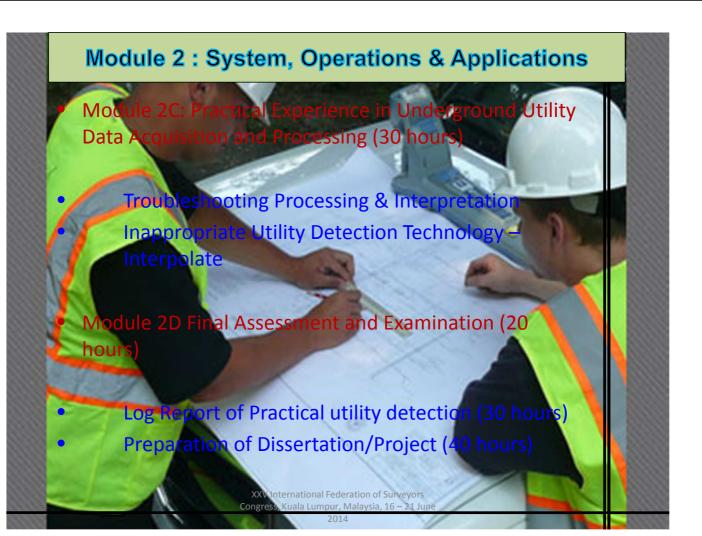


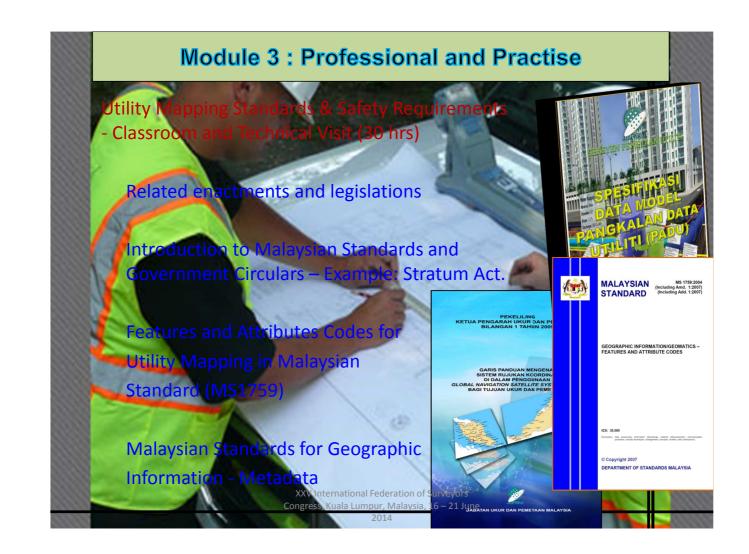














#### Module 3 : Professional, Industry & Society

Introduction and Roles of the Land Surveyor and de (utility owner, land surveyor, JUPEM)

Utility quality level attributes (Quality Levels D, C, B, A)

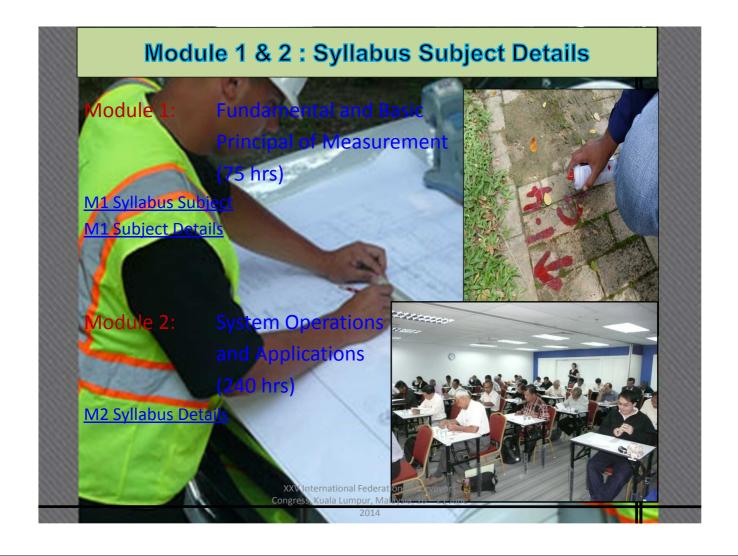
Understanding Utilities Network and Print Reading Fundamental (E Syabas, TNB, and Telekom Network)

Maintenance of the National Underground Utility Database (PADU)

Other Standard Guidelines

Horizontal Directional Drills (HDD) and Bore Hole Drilling - Industry Practice (Presentation)

Other related UUM practice, Eg. Forensic (Uniten) & Gasteg (UTM)







# Conclusion

To date 66 candidates have been awarded with a UUDSM Certificate

Another 14 will be graduating soon after successful submission of their project pap

Graduates from the program have the knowledge and skill to provide a strong foundation and professional support towards establishing a respectable and reliable source of professional service to the nation as it strive to be a developed nation by 2020.

# Conclusion

From a surveyor view point a country cannot claim to be fully developed if it fails, among other things, to reliably map and thus efficiently manage its underground utilities

This course is a contribution by Malaysian surveyors towards achieving the national aspiration.

> XXV International Federation of Surveyors gress, Kuala Lumpur, Malaysia, 16 – 21 Jun

122

