

**“Ensuring the Competitiveness
Of Filipino Geodetic Engineers
in Global Practice
through Effective CPD”**



TOPICS

A. Global ‘Competitiveness’

B. Global Practice Concerns

C. Changing SM Environment

D. **Peradigm Shift**

GLOBAL COMPETITIVENESS

- **The ability of Filipino Geodetic Engineers to sell and supply surveying services in the global market, e.g., ASEAN, Middle East.**

GLOBAL COMPETITIVENESS

- **Developed through:**
 - **Education**
 - **Training**
 - **Experience**

GLOBAL COMPETITIVENESS

- ***“Skills for problem solving and learning to learn established through academic training***
- ***Professional and technical skills acquired and updated later in one’s career.”***

□ **Stig Enemark**

EDUCATIONAL CHALLENGE

1. 15-YEAR BASIC EDUCATION NEEDS UPGRADING

- **Qatar Case**

- **Qatari law ≥ 16 years basic education**
 - **No. of years, not units recognized**
 - **Filipino Engineers ~Technicians**

QATAR MISSION

- **Immediate solution:**
 - **1-Year remedial course**
- **Alternative, long-term, solution:**
 - **K-12 program implementation**
 - **CPD via video-conferencing**

EDUCATIONAL CHALLENGE

2. QUALITY OF EDUCATION IN SOME PHILIPPINE HEIs IN CLOUD OF DOUBT

- **Kuwait Case**

- **Fake documents**

- **CHED: 569 engg/arch schools**

ONLY 8 SCHOOLS RECOGNIZED BY KMHE/KSE

- **SLU (Baguio)**
- **USC (Cebu)**
- **MIT**
- **DE LA SALLE (Manila)**
- **UST**
- **XAVIER U (CDO)**
- **UP**
- **ATENEEO DE DAVAO**

EDUCATIONAL CHALLENGE

3. ASEAN MRA ON SURVEYING

- **Framework stage after 8 years**

- **Diverse educational qualifications**

- **10 AMS: 3 clusters**

 - **Phil-Indo-Thai** ▪ **BMS** ▪ **CLMV**

CHANGING SM ENVIRONMENT

1. Measurement to management

2. Different technologies

- Different equipment**
- Different field procedures**
- Different data processing**
- Different deliverables**

EMERGING SM TECHNOLOGIES

- 1. GNSS: RTK, NRTK, PPP**
- 2. HRSI: ~25-30cm**
 - Diwata: 3m**
- 3. Lidar, Insar/Ifsar, laser**
- 4. Cloud computing**
- 5. UAS/UAV**

• **TO ADAPT TO CHANGES...**

...DEMANDS NEW SKILLS

• **Keeping oneself up-to-date**

□ **no longer an option**

□ **essential to professional
success**

- TO ADAPT TO CHANGES...
...NEEDS **PERADIGM** SHIFT

- **Ptolemy v. Copernicus**

- **Battleship v. Lighthouse**

- **Inflexibility**

- **Situation awareness**

• TO ADAPT TO CHANGES...

...NEEDS **ATTITUDE CHANGE**

- **Rocks in our life**
- **Get big rocks in first...**
 - **or you will never
get them in at all.**

• TO ADAPT TO CHANGES...

...NEEDS **LIFE-LONG LEARNING**

□ **CPD: Ongoing process**

▪ **Never ceases**

▪ **Regardless of age**

▪ **Throughout our career**

Required CPD Units

- **45 credit units @ 3 years**
- **1 lecture hour = 1 credit unit**
- **CPD units may be earned from:**
 - **formal programs**
 - **self-directed activities**
 - **life-long learning activities**

Required CPD Units: Abroad

- **UK: 30 hours/year**
- **USA (Texas): 15 PDH/year**
- **Canada: 80 PDH/year**
- **Australia/NZ: 50 hours/year**
- **Singapore: 30 hours/year**
- **CLMV: 0 hours/year**

LET US REMEMBER:

- **A profession is based on education, knowledge and skills.**
- **Respect for any profession arises from expertise and impact it makes on society.**

LET US REMEMBER:

- **The rise in the quality of our outputs will redound to the enhanced reputation and prestige of our profession.**

THE RABBIT AND THE TURTLE:

- **Always improve ourselves.**
- **Cooperate well with others to better serve our clients.**

TO BE COMPETITIVE...

- **RAISE AWARENESS LEVEL**
 - **ATTEND CPD PROGRAMS**



***MARAMING
SALAMAT PO!***

**Take
a Break**

The background of the slide is a dark blue gradient with a series of curved, glowing lines that create a sense of depth and movement, resembling a tunnel or a futuristic architectural structure. The lines are more prominent on the right side, curving away from the viewer.

Continuing Professional Development

Why Commit Ourselves to CPD?

- **Mandated as pre-requisite to CGS.**
- **It is our personal responsibility as professionals to keep our knowledge and skills current so we can deliver a high quality of service to our clients.**
- **It encourages individual professional growth and increases credibility and public confidence in our profession.**

PRC Resolution No. 2013-774 **(10 August 2013)**

- **Objectives of CPD:**

- 1. Continuously improve the quality of reservoir of registered professionals.**
- 2. Provide support to lifelong learning in the enhancement of competencies.**
- 3. Deliver quality CPD activities aligned with the PQF.**

Required CPD Units

- **45 credit units @ 3 years**
- **1 lecture/workshop hour = 1 credit unit**
- **CPD units may be earned from:**
 - **formal programs**
 - **self-directed activities**
 - **life-long learning activities**

Matrix of CPD Activities

1.Seminars/Workshops	Credit Units
1.1 Participant	1 cu/hr
1.2 Resource Speaker	5 cu/hr
1.3 Panelist/reactor	3 cu/hr
1.4 Facilitator/moderator	2 cu/hr

Matrix of CPD Activities

2. Post-Graduate	Credit Units
2.1 Master's Degree	1 cu/acad. unit + 20
2.2 Doctoral Degree	2 cu/acad. unit + 30
2.3 Specialty program	10 cu/year
2.4 Fellowship	15 cu/year

Matrix of CPD Activities

3. Self-directed/LLL	Credit Units
3.1 Training module	10 cu/set
3.2 Technical paper	5 cu/paper
3.3 Research project	10 cu/project
3.4 Article	4-8 cu
3.5 Study tour/visit	2 cu/day; max 20 cu/tour
3.6 Professorial chair	Full credit