

Keynote Speech

Evolutions of Standards Education in the World

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Increasing Importance of standard educations

- Globalization of daily life and business
- Emerging soft standards related to global issues
 - Global warming, social responsibility, social securities etc
- Many complex issues to master standardization

Human Resources related to standardization

- **Technical experts for standards**

→ Technical experts who are engaged in developing and applying standards ; participating in national and international standard meetings, firm specific standards meeting within firms, working at standard organizations

- **Human Resources in private sectors**

→ who are not only engaged in standardization for business practice and R&D activities in firms, but also in attending SDOs and standards forums or consortiums meetings

→ who require to deal with standardization for their firms strategy

- who require to understand and utilize standards generally

- **Researchers and Professors**

→ who attend domestic meetings on developing standards

→ who educate students on consensus and defact standards
MBA and/or MOT

- **Consumers**

→ who propose standards related to consumer needs
→ who have an attitude on standardization , e.g. raising the problems related to the quality of goods or services

- **Regular university students**

→ who will be staff in firms, researchers or professors in universities in the future

- **Pupils of elementary schools, secondary schools, and high schools**

Several initiatives on encouraging standards educations

- **Standards Development Organization**
 - **ISO : Providing e-learning textbook, establishment of ISO Award for Higher Education**
 - **IEC : Releasing Power Point material for MBA or MOT**
 - **ITU : ITU-T/Academia holds workshop**
 - **APEC : promoting education project for international standardization**
 - **ASTM International, BSI, KSA and Others: Texts on Standards Education etc**
- **Cooperative meeting (forum) on standards education**
 - **ICES (International Cooperation for Education about Standardization)**
{ started 2006 }
 - **Asian Link Project on Standardization Educations** **{ started 2004 }**
 - **Working Group on Standardization Educations within Europe**
{ started 2006 }

Attributes of Standards

- Compatibility , Interfaces
 - Network Economy (lock-in etc), Scale Economy
- Mutual understanding
 - Common guideline , Delivering Information
- Simplification
- Securing Safety and Protecting Environment

and

Conformity Assessment

Relations between standards and institutions



Policy Implications

- Importance of the mechanisms to encourage communication among education programs
- Sharing best practices of curricula and pedagogy
- Government policy for consistently promoting standards educations

Thank you for your attention!

Welcome to ICES 2009 Workshop