

Education on Standardization Case of Chubu University

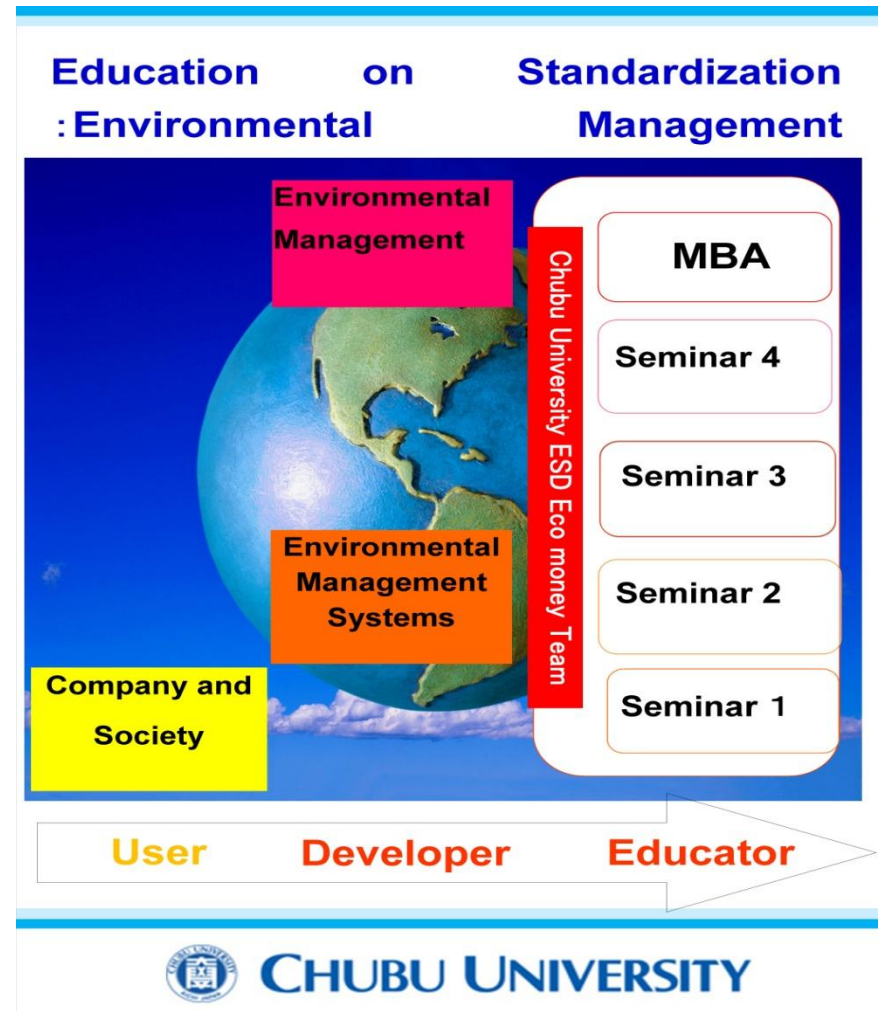
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Education on Standardization @Chubu University

- From **User,** Developer **to** teacher
- **Student's Initiatives**
- **Environmental Management**



Education on Standardization 1: Use Standard

- Freshman
- Dept. of Management
- Implement EMS as president.

**Lecture of ISO14001
and Individual
Practice.**



Education on Standardization 2: Develop Standard

- **Sophomore**
- **Dept. of Management**
- **Standardization**
(Environment, Quality,
and Safety)

**Lecture of
Standardization and
Group Practice and
competition on NWIP**
























Education on Standardization 3: Teach Standard

Chubu University ESD Eco money Team

- Promote Sustainable development
- Student oriented Education on standardization
 - Use and Develop standards
 - Utilize knowledge of standardization and create game of standardization for **kids**,
 - demonstrate these at ***environmental events***
- Collaboration with Industry and government

Game 1: What does it mean?

Standards in the field of Environment/Safety/Disaster Control

| | | Environment | | | Safety | | | | Risk | |
|------------|-------|--|--|---|--|------------------------|--|--|--|--|
| | | Management | CO2 | Recycle | Eco Label | Chemical (Agriculture) | Substance (Product) | Product Safety | Warning | Disaster Evacuation |
| ISO IEC | Int'l | ISO 14001 (EMS) | ISO14067 (Carbon footprint of product) |  ISO7000 | ISO 14021, 24 Type 1 : Third Party Type 2 : Self declared Type 3 : Environmental Declaration | | IEC 62474 (Material Declaration) | ISO/IEC Guide 51 (safety aspect) ISO12100 (Safety of Machinery) | ISO 3864 (Safety colors and safety signs)  | ISO 22301 (BCM)  |
| | | ISO26000 (SR) | | | | | | | | |
| EU | EMAS | | Green Dot  | EU Eco Label  | Euro Leaf  | RoHS REACH WEEE | CE Mark  | | | |
| | | ISO 14001 | | | | | | | | |
| JIS JAS | J P | JIS Q 14001 (EMS) | TS Q 0010 Carbon foot print | Recognition Mark  | JIS Q 14021 Eco Mark  | Organic JAS J-MOSS | JIS Z 8051 safety JIS B 9700-1,2 Machinery PL  | | | |
| | | Eco Action 21 Eco Stage EMS by public sector | 123g CO2  |  PET  紙  紙パック   Eco Leaf  Eco Leaf |  JAS  SG Mark  ST Mark  ST | | | | | |





Game 1: What does it means?

| | | | | | |
|--|--|---|--|---|--|
|  <p>ISO International Organization for Standardization Developer of International standard excluding the field of electricity and electronics</p> |  <p>IEC International Electrotechnical Commission Developer of international standard of electricity and electronics</p> |  <p>EMERGENCY EXIT International symbol of Emergency exit</p> |  <p>CAUTION International symbol of caution</p> |  <p>TSUNAMI EVACUATION AREA International Symbol of Tsunami evacuation area</p> |  <p>PROHIBITION International symbol of prohibition</p> |
|  <p>CE Marking (EU) Product safety label</p> |  <p>JAS Japan Agricultural Standards Setting the JP standards for Agricultural goods</p> |  <p>JIS Japanese Industrial Standards Setting the JP standards for industrial goods</p> |  <p>JAS organic product label Organic products that have not used pesticides or chemical fertilizers during production</p> |  <p>Euro Leaf (EU) Organic products that have not used pesticides or chemical fertilizers during production</p> |  <p>RECYCLE International symbol of recycling</p> |
|  <p>Energy Conservation label (JP) Energy efficiencies of products (JP)</p> |  <p>EU Eco Label Products and service that have a low environmental impact</p> |  <p>Eco Mark (JP) Products and service that have a low environmental impact</p> |  <p>Carbon footprint of Products Label (JP) Shows the amount of carbon consumed during the life cycle stages of goods and services</p> |  <p>Carbon offset (JP) Products and services that can compensate for carbon offset</p> |  <p>Eco Leaf (JP) Shows environmental information of products through life cycle stages</p> |



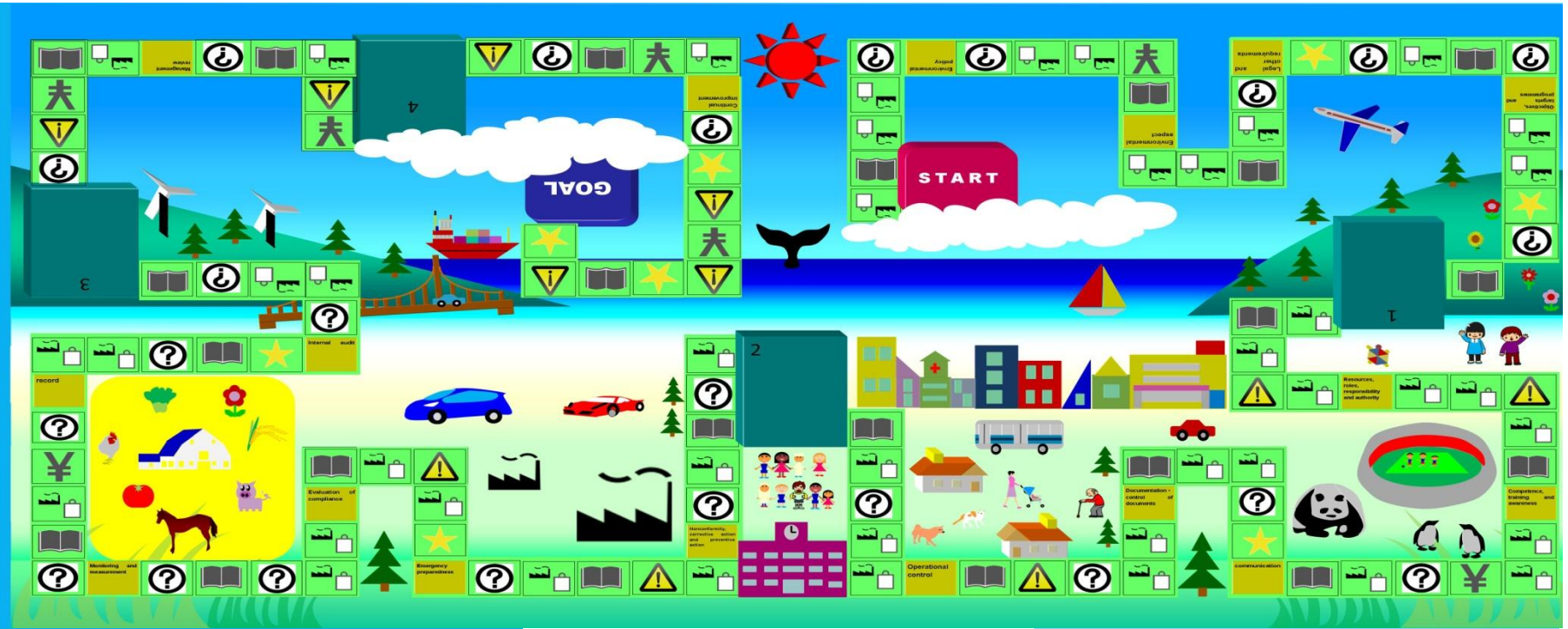
Explanation of the Rules

| | |
|--|--|
|  <p>ISO: This card allows players to force the next person to draw 4 card from the deck. Player may also change the color of the cards in play.</p> |  <p>Tsunami Evacuation area: This card allows player to remove the effects of any card affecting .</p> |
|  <p>IEC: This card allows player to change the color of the cards in play.</p> |  <p>Recycle: This card allows the player to reverse the order of play.</p> |
|  <p>JIS: This card allows the player to force the next person to draw 2 cards from deck.</p> |  <p>Prohibit: This card forces the next player to miss a turn.</p> |
|  <p>Emergency Exit: This card can eliminate the effect of the black cards. The next person to draw a card then chooses the color of the cards in play.</p> |  <p>Attention: This card allows the player to pull a card from the deck and play it.</p> |

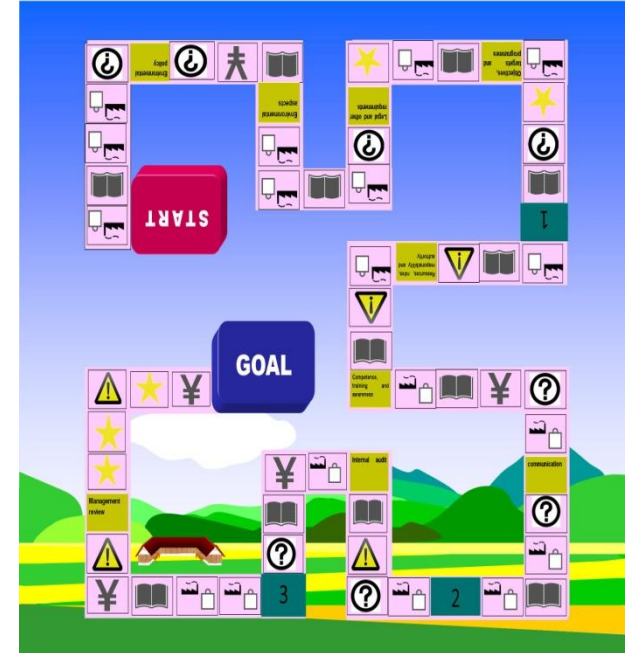


Environmental Day Nagoya 2011 Eco Products 2011





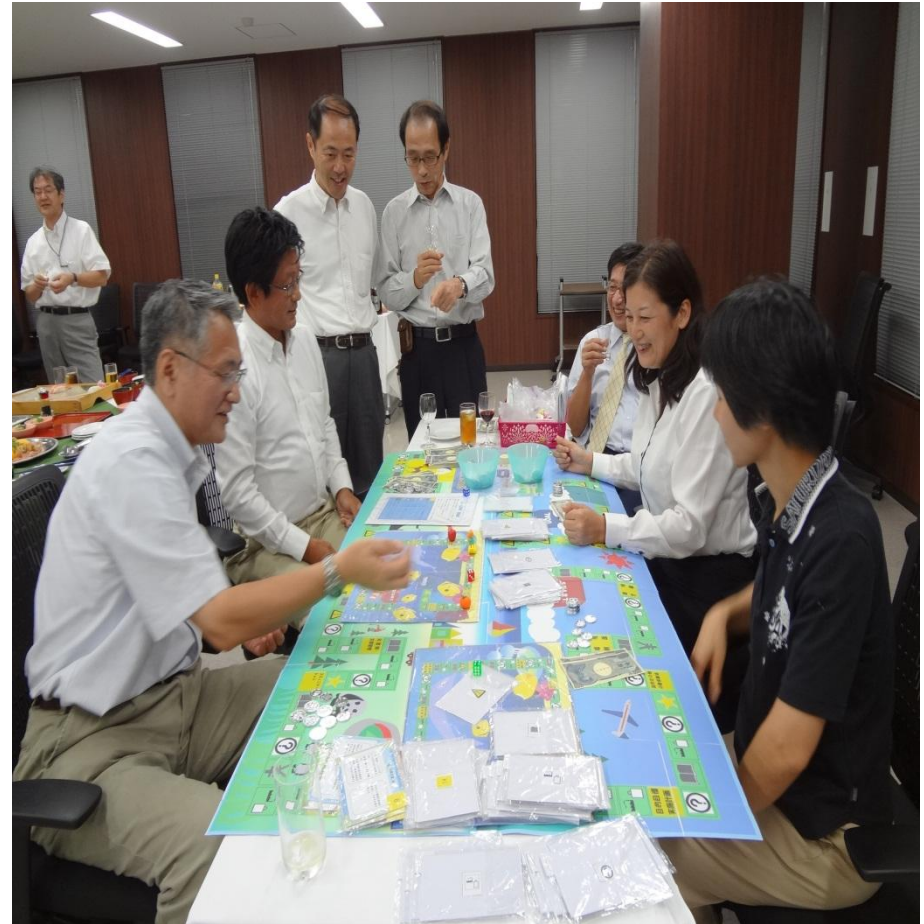
**Game 2:
If you
were
President**



Market Test: Government and Industry



Presentation for JISC and JSA



**Presentation for Environmental
Representatives of several companies**

Market Test: Kids and Public (Environmental Events)



Conclusion

- **From User, developer to teacher**
- **Student oriented approach of Education on Standardization → Effective**

Further information,

**See Facebook (official homepage) of
Chubu ESD Eco money team**

<http://www.facebook.com/ChubuunivESDecomoneyteam>