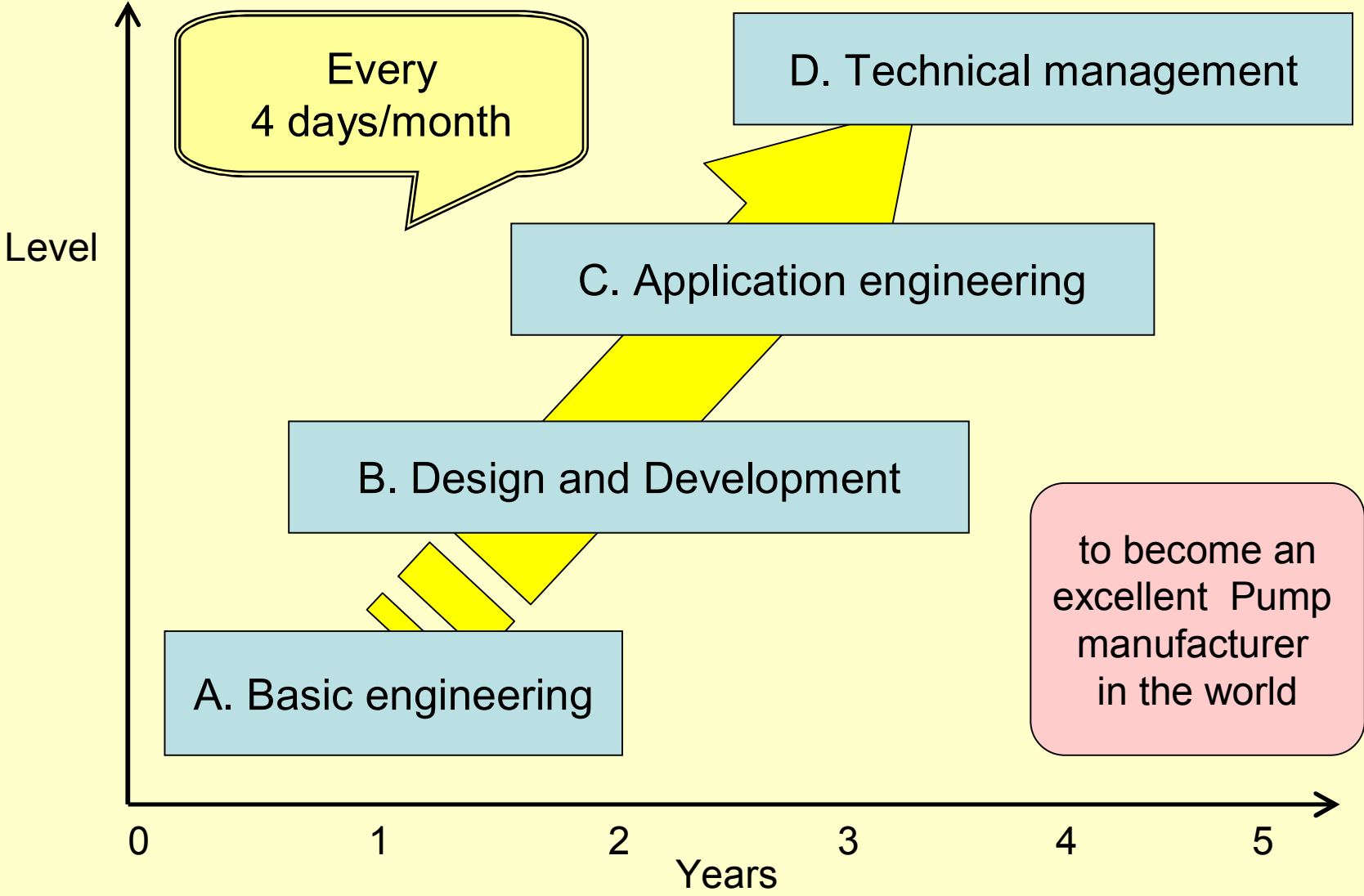


Pump engineer training program



Sotoyama consultant office

A. Basic engineering

- Worldwide specifications – ISO, API etc.
 - Essentials of pump applications
 - Selection of pumps
 - Pump engineering
 - Pumping liquids other than water
 - Materials
 - Vibration
- etc.

B. Design and Development

- Pump design criteria
 - Pump standardization
 - Impeller hydraulic design
 - Casing hydraulic design
 - Pump design
 - Patent proposal
- etc.

C. Application engineering

- Centrifugal pump applications
 - Process pump applications
 - Sealless centrifugal pumps applications
 - Operational problems and countermeasures
- etc.

D. Technical management

- Economical management
- Human resources management
- Information management
- Security management
- Social interest management
- Worldwide management
- Know-how management

etc.