Purpose
To master knowledge about problems in pump operation and maintenance, and countermeasures against them.

Characteristics
★Mastery of methods of mechanical seal management related to pump operation and maintenance, and management methods related to temperature, flowrate, corrosion, fouling, and lubrication.
★Combining animated computer graphics, narration, and real video imagery, the explanations are given a sense of presence and realism.
★With interactive content interspersed in various places, students can progress through the materials at their own pace.

Curriculum
Before You Start Studying
Chapter 1 Mechanical Seal Management (1)
Chapter 2 Mechanical Seal Management (2)
Chapter 3 Problems Due to Temperature Control
Chapter 4 Problems Involving Low Flowrate
Chapter 5 Effects of Corrosion, Fouling, and Lubrication

Who should take this course
Novice and mid-level employees responsible for maintenance work, operators and engineers on production-sites (plants), and workers, supervisors and administrators in the field

Course material outline
◆Expected learning time: 4 hours
◆Number of tests: 2
◆Shortest duration: 83 minutes

Supervised by
Idemitsu Kosan Co., Ltd. Technical Training Center
Chapter 4 Problems Involving Low Flowrate
401 Vibration Due to Low Flowrate Operation
402 Fluid Collisions
403 Incipient Cavitation
404 Vortices near the Impeller Eye
405 Temperature Rise Due to Low Flowrate Operation
406 Ways to Improve Low Flowrate Operation

Chapter 5 Effects of Corrosion, Fouling, and Lubrication
501 Performance Degradation
502 Corrosion and Unbalances
503 Lubrication Problems