3-3 Developing Security Human Resources for Acquiring Practical Skills in Critical Infrastructures



e-learning

Feedback from the hum resources development

Lecture materials

Lecture textbooks

(slides)

e-leaning teaching materials

Various styles of learning (lecture,

Adaptation to each field •Interview and survey in each field •Preparation of terminology •Incident cases in each filed

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Outcomes

(1) Current Level of Achievement

Teaching materials have started being distributed and the trail of specific human resource development is underway.

Based on opinions obtained through these steps, the teaching materials are being updated.

The teaching materials have been distributed to about 40 organizations.

Development of human resources is in progress in the organizations where the teaching materials have been distributed.

Hands-on exercise - Exercise courses are provided in Institute of Information Security and Keio University.

Scenario type

exercises

Hands-on exercises [Diversity and Adaptation of Teaching Materials]

Incident cases

e-learning)

Teaching guidelines for instructors

Communication

broadcasting Transportation

Energy

(2) To be Achieved

Establishment of a system for periodic update based on developed materials

Formation of the community of instructors

Information sharing in the community and update of the teaching materials Commercialization by the implementing organization

Function as the core of the community of instructors

Practical Application and Commercialization of Research Themes

(1) Status of Activities

Educational programs using the teaching materials are planned to be commercialized.

Also, a community of instructors in the organizations where the teaching materials are used will be formed, and at the same time, a sustainable system will be established for the use of teaching materials, information sharing, and update of teaching materials.

Especially for the update of teaching materials, we will establish a system for continual updating through collaboration with not only the implementing organizations but also government institutions including NISC, industry organizations in each field including ISAC, and industry collaboration organizations or other institutions including JNSA and CRIC-CSF.

(2) Challenge for Commercialization

There are a variety of development targets for human resources, which requires effective education programs to be formulated for such versatile targets. It should be possible that these education programs are widely rolled out,centered on the community formed in this research and development.

(3) Action Policies and Future Plan

After trialsconducted in FY2019, operation will be started in the implementing organization from FY2020.



(information sharing, incident database)