

KISIA Information Security Education and Training Status Analysis and Plans

1. Introduction to KISIA and the Education Center

The **Korea Information Security Industry Association (KISIA)** was established on September 19, 1998. As of August 2025, KISIA has 322 member companies, an annual budget of 13.8 billion KRW, and 52 employees. Its vision is to be a **specialized institution that creates future value in information security**. KISIA carries out various projects such as training professional security personnel, promoting industry–academia–research collaboration, recommending improvements to laws and regulations, conducting market research and statistics, supporting overseas expansion of security companies, and resolving industry issues.

The **Korea Information Security Education Center (KICE)** serves as the representative body of the Information Security ISC. It plans and operates projects related to employment and labor, monitors occupational changes, and publishes quarterly issue reports. It also functions as a hub connecting education with policy and regulatory improvements. Training programs include personal information protection, ICT convergence security, and online/offline hybrid security courses, all of which integrate emerging technologies such as AI security and supply chain protection to meet evolving industry demands.

2. Current Status of Information Security Workforce Development

2.1 Performance of Training Programs

- **Personal Information Protection (National HRD Consortium)**
 - 14 programs, 43 sessions
 - 817 trainees, 100% completion rate
 - Average satisfaction score: 4.6/5
- **ICT Convergence Security Workforce Training**
 - 7 programs, 20 sessions
 - 340 trainees, 100% completion rate
 - Average satisfaction score: 4.5/5
- **Ontact Convergence Security Training**
 - 7 programs, 40 planned sessions, 7 completed
 - 513 participants, 503 completions (98%)
 - Average satisfaction score: 4.6/5
- **Security Academy**

- Two tracks: job-oriented and enterprise-oriented
- 62 graduates
- Average satisfaction score: 4.6/5
- **S-Developer / AI Security Technology Development Programs**
 - S-Developer: 76 graduates, satisfaction 4.2/5
 - AI Security Development: 101 graduates, satisfaction 4.6/5, Hackathon awards (2nd and 3rd place)

2.2 University-Based Activities

- **KUCIS (Korea University Clubs Information Security)**
 - 534 student members nationwide
 - 105 participants in CTF competitions
 - 7 practice-oriented programs with 302 students trained
 - Ongoing regional seminars
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3. Skill-Up Strategies

KISIA pursues **skill-up initiatives** to align workforce training with industry demands and the latest technology trends.

1. **Trend-Based Curriculum Updates**
 - Incorporates Zero Trust, supply chain security, and generative AI security issues
 - Focus on developing immediately deployable workforce
 2. **On-Site Oriented Training**
 - Emphasis on simulation-based exercises and real-world case studies
 - Practical, behavior-centered training beyond theoretical learning
 3. **Establishing a Virtuous Cycle**
 - Structured pathway: job training (3 months) → project mentoring (1 month) → internship (2 months)
 - Comprehensive cycle from education to employment integration
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4. Future Plans

1. **Industry-Specific and Customized Training Programs**
 - New curricula in generative AI security, software supply chain security, and personal data protection
 - Programs tailored to company size and sector needs
2. **Sustainable Entry-Level Workforce Development**
 - From self-assessment to customized practice-based training
 - Clear growth path: assessment → learning → practice → employment
3. **Hybrid Learning Environment**

- Online self-directed learning combined with offline practice and discussion
 - Building a foundation for autonomous learner growth
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Conclusion

KISIA has significantly contributed to strengthening Korea's cybersecurity workforce by operating comprehensive training programs across personal data protection, convergence security, and AI security. Through practice-oriented and employment-linked education, KISIA fosters professionals who can be deployed directly into the field. Looking ahead, KISIA plans to further expand its role as a central hub for information security training by focusing on **emerging technologies such as generative AI and supply chain security, establishing a virtuous workforce development cycle, and implementing hybrid learning models** to enhance the adaptability and competence of future security professionals.

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