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The **K**orean **A**ssociation of **P**rofessional Engineers in **I**nformation **E**ngineering

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Message from the Chairman



KAPIE
The Korean Association of Professional Engineers in Information Engineering

Chairman
Kwang-Kook Kim

Established in 1995, the Korean Association of Professional Engineers in Information Engineering(KAPIE) is a government-accredited organization in the field of Information and Communication Technology(ICT). Its 1,900 members are professional engineers in four mission critical fields of today: Information Management, Computer Systems Application, Information & Communication, and Electronic Application.

Since inception, our association has remained steadfast in upholding its mission and carrying out responsibilities as a professional organization, recognized by and in cohabitation with the Ministry of Science and ICT of Republic of Korea.

In today's dynamic landscape, digital capabilities including data, network, artificial intelligence, and software, are of paramount importance. In the era of digital transformation, having collaborative partners armed with practical experience and professional expertise is essential to success for businesses small and big and throughout industries and verticals, as institutionalizing policies and procedures are of utmost importance. This holds true not only for private enterprises but also for the public sector, where policy and institutional enhancements are crucial.

Our association collaborates actively with organizations, including the Ministry of Science and ICT. We engage in policy setting, business development, and process evaluations and revamp with the aim of fulfilling our mission of national prosperity and the advancement of public welfare.

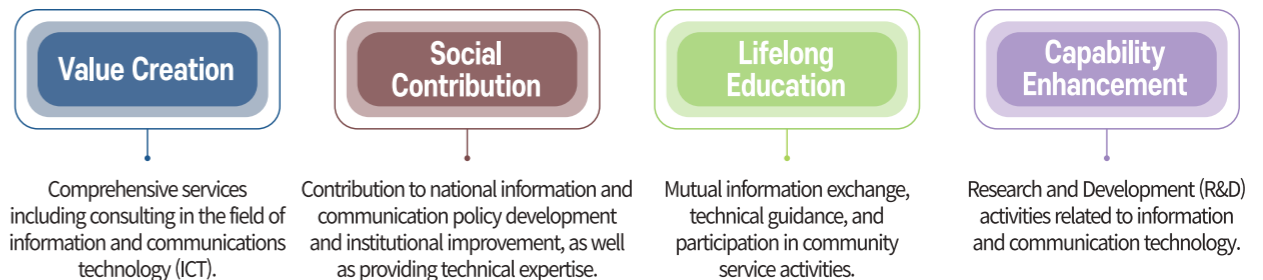
Thank you.
Kwang-Kook Kim

01 KAPIE (The Korean Association of Professional Engineers in Information Engineering)

The Korean Association of Professional Engineers in Information Engineering (KAPIE) was founded in 1995 with a group of ICT professional engineers in the fields of information processing and communications. It is a **field and practice-oriented** professional organization comprising over 1,900 experts engaged in various domains, including information management, computer systems applications, information communications, and electronic application technology.

Foundation and Establishment Composition

- **Legal Basis of Establishment : Act No. 18425, 「PROFESSIONAL ENGINEERS ACT」 Article 14**
- Professional engineers may establish an association with the authorization of the Minister of Science and ICT in order to enhance their responsibilities, technical expertise, and uphold their professional standards.
- **Professional Engineers' Duties : 「PROFESSIONAL ENGINEERS ACT」 Article 3**
- Professional engineers are required to perform various duties, including planning, research, design, analysis, investigation, testing, execution, supervision, evaluation, diagnosis, test runs, business management, technical judgment (including technical appraisal), and engineering arbitration. These duties pertain to matters that demand professional expertise in the fields of science and technology. Additionally, they are responsible for providing technical advice and guidance on such matters.
- **Members : ICT Professional Engineer, enterprise member, group member, special member, etc.**



Our organization consistently engages in social contribution activities, offering mentorship support to individuals with disabilities, teenagers, and college students. We are deeply committed to advancing the national ICT sector, through our involvement in consultancy and supervisory roles related to information and communications technology. Furthermore, we provide court appraisal service for technology-related disputes when requested by the courts. Also, we offer expert advice in various domains upon request from public institutions and undertake responsibilities entrusted to us by relevant government organizations overseeing information and communications technology. Through these collective efforts, we aim to foster the development of the country's ICT sector.

Membership Status

• **March 2023** • **Number of Members** : 1,891

	Fields	Members	Ratio
Information Technology	Information Management	1,118	58.1%
	Computer System Application	555	28.8%
Telecommunication	Information Communication	227	11.8%
Electronic	Electronic Application	7	0.36%
Special Member	Special Member	18	0.94%
Total		1,925 (34duplicate qualifications)	100%

* ☒ Multiple Professional Engineer license holders duplicate calculations for each discipline

02 Changes in Association

Change of Supervisory Agency

In line with the founding principles of our association and the primary fields of activity of our members, we have decided to make a change in our supervisory agency. Consequently, we have transitioned our association's legal status from a corporation under the Civil Law to a special corporation under the Engineering Professional Act. This change has been implemented to establish a clear legal foundation, boost external credibility, and enhance our engagement with the public. As a result of these efforts, we have successfully completed the transition by designating the "Ministry of Science and ICT" as our new supervisory agency.

Association Name Change

In compliance with the Professional Engineers Act, we have officially changed the name of our association to the Korean Association of Professional Engineers in Information Engineering in accordance with Article 14 of the Professional Engineers Act.

* The decision was made considering the presence of multiple associations with similar names and the future consolidation.

Our primary goal is to provide a clear representation of the four engineering categories we cover, which include Information Management, Computer Systems Application, Information Communications, and Electronic Application Technology. Additionally, this name change aims to effectively represent our corporate members.

The name revision was deemed necessary to accurately portray the scope of our association and to better serve the interests of our corporate members.

Changes in detail

- Changes in Supervisory Agency (November 22, 2021)
- Association Name Change (March 10, 2022)

	Before	After
Korean	(사)한국정보통신기술사협회	(사)한국정보공학기술사회
English	ICPEAK (Information & Communication Professional Engineer Association of Korea)	KAPIE (The Korean Association of Professional Engineers in Information Engineering)
Logo	 사단 한국정보통신기술사협회 법인 Information & Communication Professional Engineer Association of Korea	 한국정보공학기술사회
Competent authority	Central Radio Management Service	Ministry of Science and ICT
Basis of Establishment	Establishment under Civil Act	Establishment under Professional Engineers Act

03 Association History

2023

03. KIM Kwang-kook(PE, Information Management) was elected as the 14th chairman at the 33rd Regular General Assembly
02. MOU with Eunpyeong Startup Support Center

2022

12. MOU with Igence Co., Ltd.
07. [IT Professional Engineer – Start-up] Mutual Growth Investment Association No.4
05. Development of NCS Learning Modules (6 Subcategories)
04. The 32nd General Assembly and Name Change Proclamation Ceremony
03. Social Contribution: Briquette Delivery for Babsang Community

2021

12. 1st Professional Technology Investor Training and Qualification Test
06. [IT Professional Engineer – Start-up] Mutual Growth Investment Association No. 3
05. Development of NCS Learning Modules (15 Subcategories)
04. S/W Talent Development Planning Service for New Industry Job Creation

2020

12. MOU with IT Women Entrepreneurs Association
11. [IT Professional Engineer-Start-up] Mutual Growth Investment Association No. 2
09. Private Qualification Registration (Professional Technical Investor)
07. Establishment of Attached Investment Operation Center, Digital Forensic Center, and S/W Safety Center
05. MOU with Digital Zone Inc.
04. - Capability Enhancements for NIPA Public S/W Subcontractor.
- Policy Research and Development for Designing Digital Evidence Data Packages and Implementing Prototypes Suitable for Police Environments.
- Development and Improvement of NCS Learning Modules: (12 subcategories)
03. Research on Improvement of Hanium ICT Mentoring Operation
01. 2019 S/W Convergence Survey

2019

12. [IT Professional Engineer – Start-up] Growth Investment Association No. 1
10. 2019 S/W Safety Research
06. MOU with Digital Industry Promotion Agency in Yongin City
05. NCS Learning Module Development, (12 subcategories)
04. Enhancement of Capacity for NIPA Public S/W Contracting MOU with Konkuk University.

2018

09. Case Study on Digital Transformation Promotion of Major Domestic Companies
06. Information System Supervision, Development Planning for PMO Survey on S/W-based Innovation Activities in Other Industries in 2018
05. MOU with Korea IT Business Promotion Association
04. Development of NCS learning module: Wrote 3 Subcategories including Information Technology
Public S/W contractor capabilities building education project.
MOU with Data Incubator Korea, IT InnoMates.
02. 28th Regular General Assembly
Reappointment of the 12th Chairman BAEK Hyeong-Chung

2017

11. Young Professional Engineer's Conversations with SONG Hee-Kyung, member of the National Assembly
09. MOU with Koreana Hotel
06. MOU with Cheongjeum Rehabilitation Center
05. Development of NCS Learning Module (11 subcategories)
04. Enhancement of Capacity for NIPA Public S/W Contracting Education
02. Workshop on Measures for the Obligation of S/W Education in Elementary, Middle, and High Schools

2016

12. Development and Operation of Creative Convergence Maker Education Program
08. Development of NCS Learning Modules (4 subcategories)
05. MOU with Seoul National University of Science and Technology, Soongsil University, Dongguk University
03. Development of NCS Learning Modules (4 subcategories)
02. 26th Regular General Assembly
BAEK Hyeong-Chung elected as the 11th chairman

2015

05. Development of NCS Learning Module (9 Subcategories)

04 Vision Statement

KAPIE 2.0!

Establishing the strengthen position of ICT Professional Engineers in the DX(Digital Transformation) era

Vision

Positioning KAPIE Status Suitable for the DX Era

Mission

To Strengthen Organizational Reputation

To Enhance Member's Rights and Interests

Four Key Initiatives

Enhancing External Collaboration

Ensuring Fiscal Soundness

Increasing Social Contributions

Strengthening Member Communication

Promotion Direction

Enhancing Collaboration with Relevant Government Agencies

Stabilizing the Association's Finances

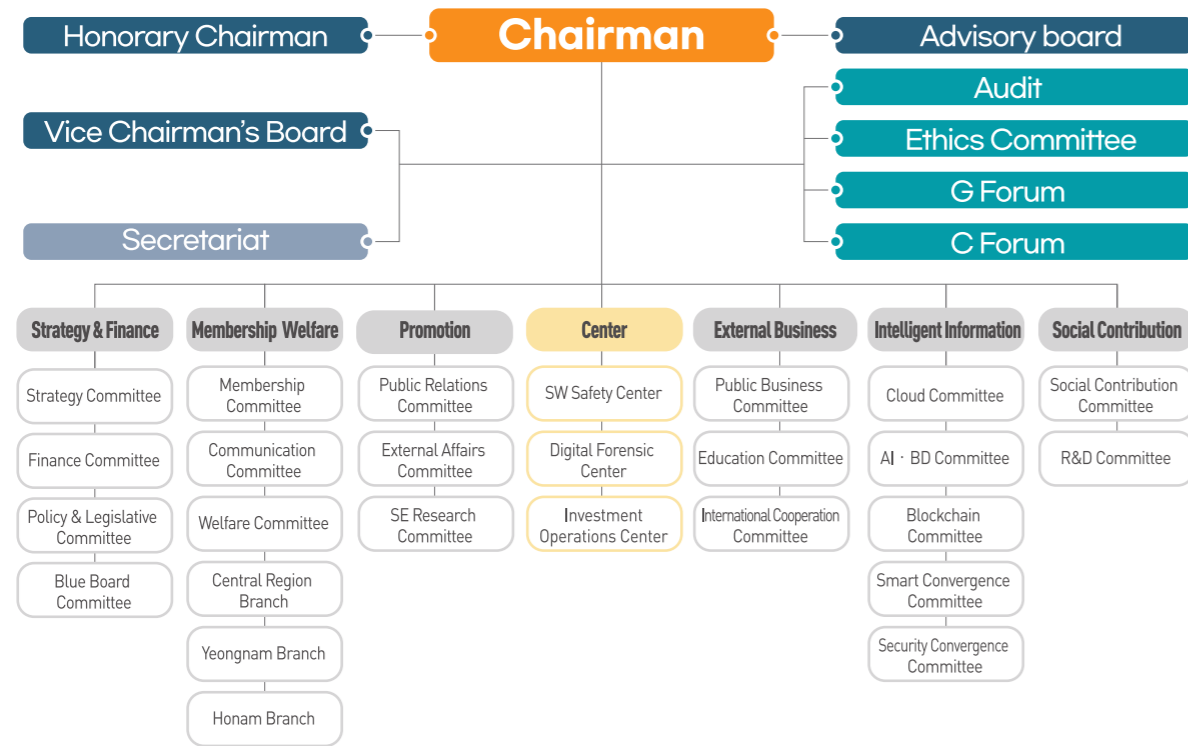
Strengthening Offline Communication

- 2014**
 - 09. Development of NCS Learning Module (15 Subcategories)
 - 06. - Development of National Competency Standards (NCS).
- Redesign of qualification items for 10 duties in the field of communication technology and development of certification standards and verification (evaluation) standards.
 - 02. 24th Regular General Assembly
Hong Dae-Gi elected as the 10th chairman
- 2013**
 - 12. MOU with Human Resource Development of Kookje University
 - 04. Development of National Competency Standards (NCS) (15 Subcategories)
- 2012**
 - 07. Performed On-site Technical Manpower Retraining Project
 - 03. SME Information Professional Competency Reinforcement and Education Project
- 2011**
 - 12. - KIMTae-dal reelected as the 9th chairman on a General Meeting Assembly
- MOU with Korea Institute of Engineering Education
-Accreditation, Korea ITS Society for Strategic Business Partnership
 - 06. 2011 Information System Audit Symposium
 - 05. The Competency Reinforcement and Education project for small and medium-sized IT companies
- 2010**
 - 07. 2010 Information System Audit Symposium
 - 06. MOU with the Small and Medium Business Administration research project.
 - 01. MOU with the Electronic Newspaper and the National Federation of Industries for the Development of Education
- 2009**
 - 12. KIM Tae-dal, elected as the 8th chairman on a Regular General Assembly
 - 07. 2009 Information System Audit Symposium
- 2007**
 - 12. SHIM Ki-Bo elected as the 7th chairman on a Regular General Assembly
- 2006**
 - 07. 2006 Information System Audit Symposium
- 2005**
 - 12. LEE Kyungjun elected as the 6th chairman on the 16th Regular General Assembly
- 2004**
 - 03. Public Hearing for the Enactment of the Information Technology Management Reform Act
- 2003**
 - 12. LEE Namyong elected as the 5th chairman on the 14th Regular General Assembly.
- 2001**
 - 12. Hong Wan-Pyo elected as the 4th chairman on the 12th Regular General Assembly.
- 2000**
 - 02. Established the Information Technology Quality Certification
- 1999**
 - 11. SHIN Hoon elected as the 3th chairman on the 7th Regular General Assembly.
 - 02. Established of the Asia/Pacific Information Technology Experts Council and held a Commemorative Symposium.
- 1998**
 - 02. Held Policy Discussions for e-government implementation.
YEO In-gab elected as the 2nd chairman on the 3rd Regular General Assembly.
- 1996**
 - 01. Received Approval to establish an Association by the Ministry of Information and Communication (Permission No. 96-4)
- 1995**
 - 06. Decided to promote the establishment a corporate the branch for Information processing field of KPEA(The Korean Professional Engineers Association)



05 Organizational Structure

KAPIE Engineering consists of a the Chairman, elected by its members, dedicated to promoting social contributions and enhancing member rights, along with three core centers and 26 committees.



Organization	Roles and activities
G Forum	A collective community of professional engineers affiliated with government/public institutions, performing roles such as resolving national and societal ICT-related issues and sharing case studies.
C Forum	Performing the role of technical and corporate information sharing among professional engineer CEOs, and fostering networking opportunities.
Ethics Committee	Performing the role of formulating and evolving the Code of Ethics and Evaluation Regulations, establishing criteria for rewarding/disciplining members.
Center	SW Safety Center Conducting research and policy development related to software safety, establishing an external cooperation framework, and identifying and executing business opportunities.
	Digital Forensic Center Engaging in digital forensics research, establishing collaboration agreements with external agencies (Prosecution Service, National Police Agency, Board of Audit and Inspection, Fair Trade Commission, Law Firms, etc.), and identifying and pursuing business opportunities in e-Discovery and consulting.
	Investment Operations Center Developing investment-related policies and collaborating with relevant organizations. Overseeing business operations, including fundraising and delegation to management companies for professional engineers (e.g., private certification for investors, problem development, and qualification course execution). Undertaking external projects, such as technical report development and participation in government-funded investment promotion consortiums.
Strategy & Finance	Strategy Committee Creating annual business and budget plans, offering support and overseeing the performance of committees, amending the organization's constitution and regulations. Enhancing the administrative functions of the secretariat, and coordinating events hosted by the organization.
	Finance Committee Ensuring financial transparency and stability, overseeing accounting and financial reporting, managing expenditure approval regulations, and implementing financial management policies for the organization.

Organization	Roles and activities
Strategy & Finance	Policy & Legislative Committee Formulating future growth strategies for the organization and researching enhancements to laws and regulations related to the advancement of national IT technology.
	Blue Board Committee Contributing creative innovation ideas to the association, conveying feedback from the field, and hosting events such as welcome parties and training sessions for new professional engineers.
Membership Welfare	Membership Committee Roles include member list updates, enhancing member networking channels, and organizing unity events for members.
	Communication Committee Promoting motivational meetings and providing marketing support activities for member companies.
	Welfare Committee Managing member welfare benefits, expanding and supporting membership, addressing member grievances, and providing advice for overcoming difficulties
	Central Region Branch Strengthening networking among the members in Chungcheong-do, Daejeon/Sejong-si, and serving as a liaison to the central association
	Yeongnam Branch Strengthening networking among the members in the Yeongnam region and serving as a conduit to the central association.
Honam Branch Strengthening networking among the members in the Honam region and serving as a gateway to the central association.	
Promotion	Public Relations Committee Roles include internal and external publicity, association image enhancement, media contributions, and planning and overseeing external events hosted by the association
	External Affairs Committee Participating in The Korean ICT Professional Engineers Association events, collaborating with relevant institutions and universities, strengthening MOUs, and playing a role in integrating with The Korean ICT Professional Engineers Association.
	SE Research Committee Researching new technologies in software engineering, managing the SP certification system and auditor training, and overseeing S/W engineer project performance.
External Business	Public Business Committee Discovering and implementing NCS standards and learning modules, conducting SPRI surveys, and handling policy tasks, including collaboration with other committees.
	Education Committee Managing CPD (Continuing Professional Development) education programs and identifying educational business opportunities, including securing training venues and establishing a pool of instructors at the association level.
	International Cooperation Committee Exploring and pursuing business opportunities, such as identifying and supporting overseas expansion policies for technology companies.
Intelligent Information	Cloud Committee Conducting cloud technology research and proposing policies, participating in external association activities, and identifying and implementing business opportunities
	AI · BD Committee Undertaking artificial intelligence/big data research and proposing policies, engaging in government/organizational activities, and identifying and carrying out business opportunities.
	Blockchain Committee Conducting blockchain research and proposing policies, participating in external association activities, and identifying and implementing business opportunities.
	Smart Convergence Committee Conducting research and proposing policies related to topics such as Smart Factoring, Smart Farming, and Smart Fish Farm. Actively participating in external association activities, and identifying and executing business opportunities.
Social Contribution	Security Convergence Committee Monitoring convergence security data (including physical security, information security, disaster prevention, and environmental safety) in alignment with digital transformation. Conducting research and proposing policies for risk prediction and response, and identifying and executing business opportunities.
	Social Contribution Committee Offering IT knowledge and information to socially and economically disadvantaged individuals, providing IT support to university students, offering IT assistance to small and medium-sized enterprises, and providing IT mentoring
R&D Committee	Conducting dissertation research activities for members pursuing degrees and research in various fields (L/H/C), researching and presenting the latest technologies, overseeing information systems, and managing Project Management Office (PMO)

06 Roles and Activities

Government Education Project for Enhancing Workforce Capability Enhancement

- Development of National Competency Standards (NCS) function in the Information and Communications Technology Field
- Development of NCS Learning Modules in the Information and Communications Technology Field
- Development of NCS Qualifications in the Information and Communications Technology Field
- Collaboration with Korea Institute for Advancement of Technology on Workforce Capacity Retraining Project
- Establishment of Continuous Education (CPD) coursework for professional engineers in KAPIE.

Research and Development on Advancements in the ICT Field

- Researching on Digital Transformation Cases among major Domestic Companies.
- Conducting Research on Software Safety and Forensic Investigations
- Performing Court Appraisal Work
- Studying the Current State and Development Plans of the IT Service Industry
- Establishing Direction for Information System Oversight and PMO System Development

Providing Consulting Service

- Providing Consulting for Small and Medium-sized Enterprises (SMEs) for Capacity Building
- Assessment of SMEs' Information Technology Capabilities
- Information Technology (IT) SME Capability Enhancement Education Project

System improvement for ICT industry development

- Organized Policy Hearing for the Enactment of the Information Technology Management Reform Act
- Conducted Special Lectures on Laws Related to Information and Communication, including Related Laws, Enforcement Decrees, and Enforcement Rules
- Engaged in Information Exchange Activities to Raise Awareness of IT Services
- Conducted Research on Strategies for Sustaining and Enhancing Social Contributions, such as Cheongseum Rehabilitation Center and IT Education for the Disabled

Operational activities



Introduced the Professional Technology Investor Qualification in 2020



Received consecutive orders for the Learning Module Development from '16 to '22.



Lectures at Cheongseum Rehabilitation Center (Contribution Committee) (twice a month)



Lifetime membership training for new professional engineers (once a year)



New PEs' Welcome Ceremony (twice a year)



Social Contribution: Briquette delivery service (once a year)



Cheongseum Welfare Center Robot Contest Sponsorship (once a year)

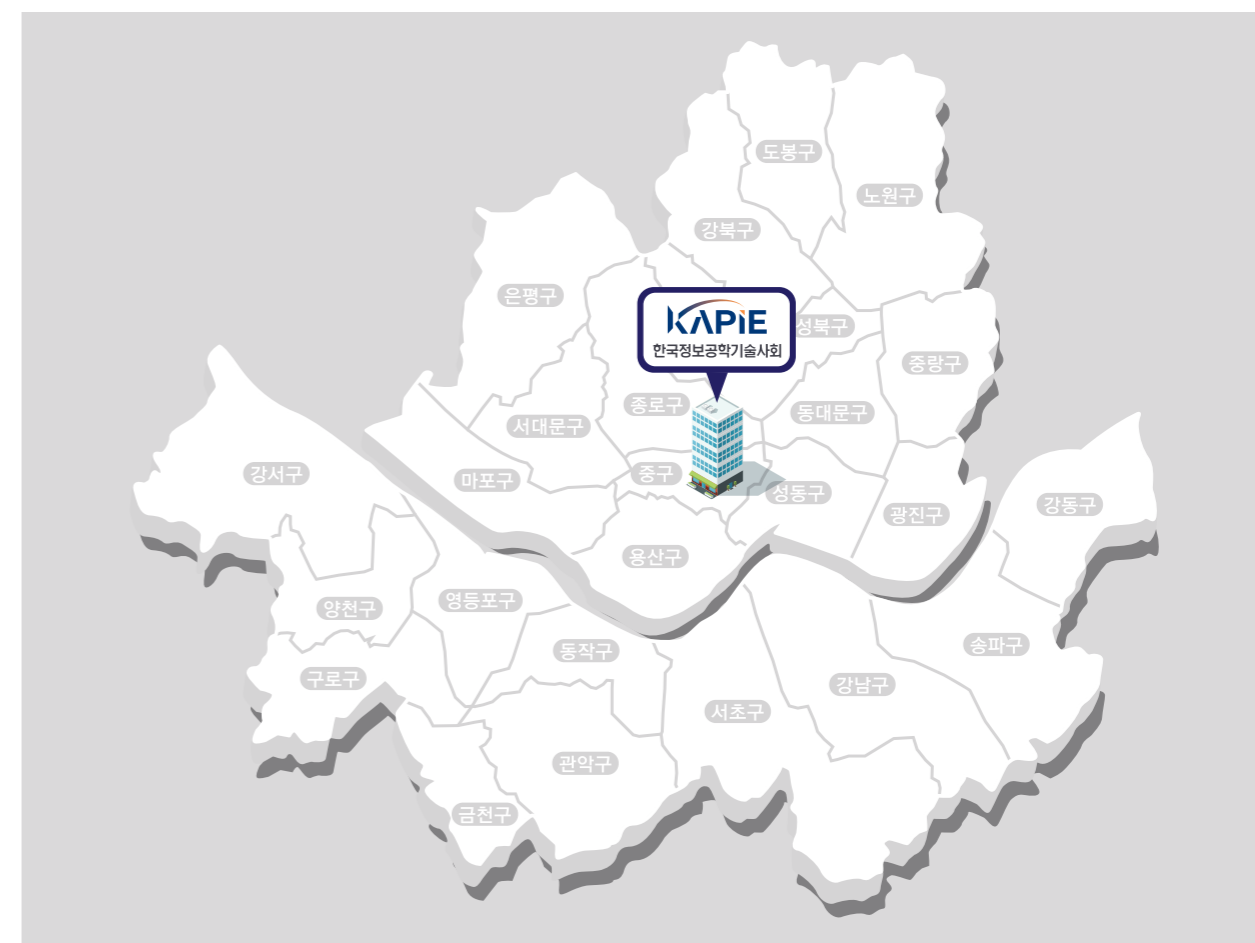


Healing Camp (4 times a year)



Information Systems Supervision Symposium

7 Location



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	Project Name	Business period	Institution name
2022	National Competency Standards (NCS) learning module development(6 subcategories)	22.05.17 ~ 22.11.16	Korea Vocational Education and Training Institute
2021	Planning the Cultivation of SW Talent to Promote Job Creation in Emerging Industries	21.03.24 ~ 21.08.31	Information and Communications Planning and Evaluation Institute
	National Competency Standards (NCS) learning module development(15 subcategories)	21.05.06 ~ 21.11.05	Korea Vocational Education and Training Institute
2020	2020 S/W Convergence Research	20.12.11 ~ 20.12.18	Ambrain
	2020 Capability Enhancement for Public Sector S/W Project Contractors	20.04.08 ~ 20.12.18	National IT Industry Promotion Agency
	National Competency Standards (NCS) learning module development(12 subcategories)	20.04.20 ~ 20.10.19	Korea Vocational Education and Training Institute
	Policy Research on Designing and Prototyping a Digital Evidence Data Package Suitable for Police Environment.	20.04.29 ~ 20.11.24.	National Police Agency
	2019 Artificial Intelligence Industry Research	20.03.20 ~ 20.03.27	Ambrain
	2019 S/W convergence research	20.01.06 ~ 20.01.17	K-Stat Research Co., Ltd.
	2019 S/W Safety Research	19.10.07 ~ 19.11.29	Ambrain
2019	National Competency Standards (NCS) learning module development(12 subcategories)	19.05.13 ~ 19.11.12	Korea Vocational Education and Training Institute
	2019 Capability Enhancement for Public Sector S/W Project Contractors	19.05.08 ~ 19.12.20	National IT Industry Promotion Agency
2018	A Case Study of Digital Transformation of Major Domestic Companies	18.10.01 ~ 18.11.30	NIPA Software Policy Research Institute
	2018 Survey of SW-based Innovation Activities	18.06.12 ~ 18.11.30	NIPA Software Policy Research Institute
	Information system supervision and PMO system development direction establishment service	18.06.01 ~ 18.12.31	Korea Information Society Agency
	National Competency Standards (NCS) learning module development(3 subcategories)	18.05.01 ~ 18.10.31	Korea Vocational Education and Training Institute
2017	2018 Capability Enhancement for Public Sector S/W Project Contractors	18.04.02 ~ 18.12.20	National IT Industry Promotion Agency
	Practical start-up education 「AI/big data field」 service	17.06.08 ~ 17.07.21	Seoul Creative Economy Innovation Center
	National Competency Standards (NCS) learning module development(11 subcategories)	17.05.01 ~ 17.10.30	Korea Vocational Education and Training Institute
2016	2017 Capability Enhancement for Public Sector S/W Project Contractors	17.04.06 ~ 17.12.20	National IT Industry Promotion Agency
	2016 Development and operation of creative convergence maker education programs	16.12.28 ~ 17.02.28	Korea Foundation for the Advancement of Science and Creativity
	National Competency Standards (NCS) learning module development(4 subcategories)	16.08.12 ~ 16.11.30	Korea Vocational Education and Training Institute
	National Competency Standards (NCS) learning module development(4 subcategories)	16.04.01 ~ 16.09.30	Korea Vocational Education and Training Institute



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