DTaQ Defense Agency for Technology and Quality

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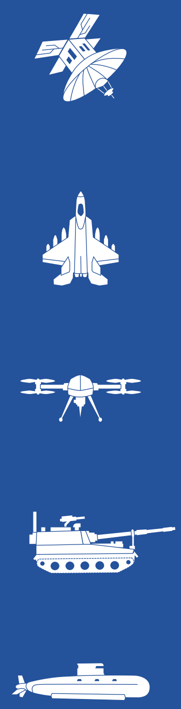
Professional Research Organization for
Defense Quality Assurance and Reliability

Defense Agency for Technology and Quality

DTaQ Defense Agency for Technology and Quality



C O N T E N T S

Greetings

Greetings to all.

Defense Agency for Technology and Quality(DTaQ) has led the advancement of Korea's defense quality management based on systemic quality assurances and research since its establishment as Defense Quality Assurance Agency in July 1981.

We will focus on the following three points to achieve innovation centered on the users (military) and producers (defense industry), and to become the world's best DTaQ, in which our researchers are proud.

First, we will apply cutting-edge science and technology to quality control and weapon systems. We will provide safe and reliable military supplies to all military personnel by establishing a strict quality control system. In addition, we weill build a more efficient and empirical quality management system by utilizing cutting-edge science and technologies such as generative artificial intelligence and the Internet of Things(IoT).

Second, we will innovate the value of DTaQ by enhancing expertise. We will actively utilize the excellent science and technology and production capabilities of the private sector to improve the administrative value and capabilities of DTaQ, and serve as a hub for the military, defense industry and research institutes.

Third, we will improve our constitution through upgrading the vision and goals. We will support the military to become a military that can win battles by upgrading the existing forces and play a leading role in helping Korea become one of the world's top four defense industry powers.

We ask for your interest and support for the world-leading DTaQ, which contributes to strengthening Korea's defense capabilities and developing the defense industry.

Thank you.

President of DTaQ

Sin, Sang Bum

Introduction

Establishment

「Defense Acquisition Program Act」 Article 32 (Establishment of Defense Agency for Technology and Quality)
Established to efficiently conduct the business of securing, distribution, administration, quality assurance, etc. of information regarding national defense science and technology and defense products
* Expansion of missions and functions with the enactment of the「Defense Industry Development and Support Act」 and「Defense Science and Technology Innovation Promotion Act」

Major Programs

- Government quality assurance of defense products and quality management support for defense material
- Programs delegated by the Minister of Defense Acquisition Program Administration

Defense Acquisition Program Act Article 32

- Business support for the standardization, etc. of munitions requested in the course of execution of defense acquisition programs
- Matters prescribed by Presidential Decree with regard to the quality control, etc. of munitions

Government Quality Assurance

· Technical support for quality management of weapon system R&D
· Government quality assurance of weapon systems and combatant support systems (Production and Operation, Sustainment phase)
· Government quality assurance of naval systems (R&D, Production and Operation, Sustainment phase)
· International quality assurance agreement
· Technical support for quality assurance of foreign purchased defense products
· Counterfeit parts prevention management

Quality Management System Certification

· Quality certification inspection and follow-up management

Configuration Management

· Technical support for configuration management including inspection to the completed naval weapon system (R&D, Production and Operation, Sustainment phase)
· Inspection and review of class 2 configuration control (Production and Operation, Sustainment phase)

Supervision and Confirmation

· Supervision of transport and disposal of military guns, etc.
· Confirmation of types and quantities of stockpiled raw materials

Entrustment of Authority

Enforcement Decree Article 37 and 71

· Support for technical assistance and international cooperation
· Technical support affairs related to the determination of strategic items by the Minister of the Defense Acquisition Program Administration

Defense Science and Technology Innovation Promotion Act Article 16

- Supporting testing and evaluation and conducting research into testing and evaluation methods of weapons systems

Enforcement Decree Article 18

Projects to Support Defense Research and Development

· Assistance with affairs related to decisions on whether the research and development is deemed to have been performed in good faith

Defense Technology Security Act Article 14

- Support for Security of Defense Technology

Military Aircraft Airworthiness Certification Act Article 10

- Institutions Specializing in Airworthiness Certification of Military Aircraft

History

1980's

Jul. 1, 1981	Established Defense Quality Inspection Agency (affiliated institute of the Agency for Defense Development)
Oct. 1, 1989	Changed the name to the Defense Agency for Quality Management * in order to reflect the expanded work scope in quality assurance

1990's

Apr. 10, 1999	Conducted certification for the Defense Quality Management System (DQMS)

2000's

Feb. 2, 2006	Expanded the organization and changed the name to the Defense Agency for Technology and Quality (DTaQ) * succeeded the functions of defense science and technology planning and technology information management from the Agency for Defense Development

2010's

May 21, 2014	Officially relocated the headquarters to Jinju, Gyeongsangnam-do

2020's

Jan. 1, 2021	Established affiliated institute, Korea Research Institute for Defense Technology Planning and Advancement * Support for technology planning and defense industry development under「Defense Industry Development and Support Act」 and「Defense Science and Technology Innovation Promotion Act」
Jul. 1, 2025	Marked the 44th year of foundation

Management Strategy

Vision	The World's Best Specialized Organization for Defense Quality and Reliability
Goal	Contributing to the Enhancement of military Capability and Defense Exports
Strategy	Strengthening Expertise Based on Advanced Technology and Leading Quality Management Product Inspection → Product Certification Requirement Fulfillment → Customer Satisfaction
Strategy Objective	Contributing to improved operational capability and defense exports through the application of advanced technology Establishing a customer-centered full life-cycle quality management system (users, producers, and managers) Verification of weapon system reliability and strengthening the protection of defense industry technologies DTaQ that people want to work for through management innovation
Value	Transparency / Professionalism / Efficiency

Organization

Chief Executive Officer

- Audit Department
- KRIT
- Department of Innovation Legal Affairs

Policy & Planning Division	Department of Policy & Planning | Department of Human Resources | Department of Budget & Planning | Department of External Relations
Administration & Management Division	General Affairs & Welfare Team | Financial Accounting Team | Construction & Asset Team | Facilities Management Team
Information Security & Safety Division	IT Systems Team | Information Security Team | Safety & Health Team

Directorate of Defense Technology Research

Defense Technology Planning Department | Defense Standards Research Department

Advanced Technology Center	Space Systems Team | Intelligent Software Team | Advanced Technology Team
Defense Reliability Research Center	RAM Analysis Team | Reliability Test Analysis Team | PGM Life Analysis Team | Physico-Chemical Test Analysis Team
Defense Firing Test Center	Safety & Test Planning Team | Test & Evaluation Team 1 | Test & Evaluation Team 2 | Test & Evaluation Team 3
Defense Industry Technology Security Center	Defense Technology Control Research Team | Defense Technology Infringement Analysis Team Defense Technology Protection Investigation Team

Directorate of Defense Quality System Research

Quality Planning Department | Military Field Quality Support Department | Weapon System Improvement Research Department | Supply Chain Management & Research Department

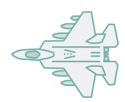
C4ISR Systems Center	C4ISR System Development Quality Research Team | C4ISR System Team 1 | C4ISR System Team 2 | C4ISR System Team 3 | C4ISR System Team 4
Land Systems Center	Land System Development Quality Research Team | Land System Team 1 | Land System Team 2 | Land System Team 3 | Land System Team 4
Naval System Center	Naval System Development Quality Research Team | Naval System Team 1 | Naval System Team 2 | Naval System Team 3
PGM & Ammunition Center	PGM & Ammunition Development Quality Research Team | PGM & Ammunition Team 1 | PGM & Ammunition Team 2 | PGM & Ammunition Team 3
Aviation System Center	Aviation System Development Quality Research Team | Aviation System Team 1 | Aviation System Team 2 | Aviation System Team 3
Airworthiness Certification Research Center	Airworthiness Certification Team 1 | Airworthiness Certification Team 2

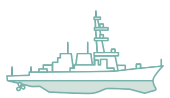
Government quality management for defense products

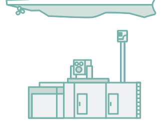
Step 1

1. Improving the operability of defense products centered on demand forces and maximizing combat effectiveness
2. A review on the completion of design and specification data for mass production of defense products and follow-up military support
3. Improving the quality of defense products by prior securing manufacturing for mass production

Examples


KF-21

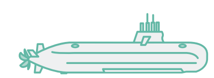

Gwanggaeto-III Batch-II Destroyer

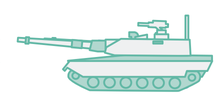

Anti-aircraft laser weapon

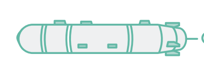
Step 2

1. Confirmation of compliance with central procurement defense products contracts, specifications, requirements and issuance of inspection documents
2. Effective follow-up mass production quality management and continuous quality improvement through selection and concentration on the basis of risk management

Examples


Jangbogo-III Batch-I Submarine

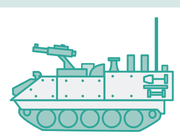

K-2 Black Panther Tank

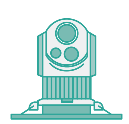

Heavy Torpedo-II Tiger Shark

Step 3

1. Conducting a project to maximize existing military power
   *Improving for combat power·quality·operability and maximizing the rate of operation
2. Active technical support for the military in a user perspective
3. Pre-research and analysis for discontinued parts of the equipment to improve the depot maintenance

Examples


Data networking improvement for CBRN reconnaissance vehicle-II(Armored)


Anti-ice protection improvement for the electronic optical tracking equipment on the battle ship

International Quality Assurance Cooperation

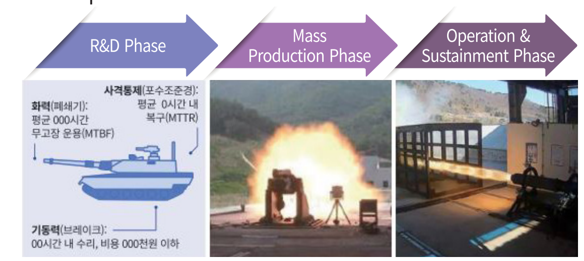
- Mutual service provision and cooperation of government quality assurance regarding imported and exported defense products among the agreement governments(27 nations) through the agreement of international quality assurance
- Enhancement of quality reliability by the overseas governments' quality management about imported defense products
- Quality management of exported defense products for the support to export the defense industry products

Government Quality Management of High-tech Weapon System Based on the 4th Industrial Revolution

High-tech Weapon	High-tech Weapon System based on the 4th Industrial Revolution like AI, Unmanned, etc.
Satellite & Space	Korean Satellite and Space Weapon System(Product Warranty, Expansion of standard certification and test)
Cyber	Ensuring full security and quality of Cyber weapon system

Defense Reliability Study

- Weapon system RAM task at each acquisition stage
  *RAM : Reliability, Availability, Maintainability
  - (Requirement) Supporting the provisional RAM target setting and up-to-date
  - (Development) Review of RAM task and analysis plan, Verification of developed RAM data
  - (Mass Produciton & Operation) RAM analysis of field operational data and identification & feed-back to frequent faults



RAM target data setting (Reliability/Availability/Maintainability) | Acceptance test | Stockpile reliability test (Ammunition, Guided missile & Chemical material)

- SW systematic quality management at the stage of R&D and mass production
  - (R&D) Technical Support for SW quality management at each stage of weapon system development
  - (Mass production & Operation) SW quality assurance for the mass production and technical support for the shape control
  - Feedback study in the weapon system SW errors
- Reliability assessment to find out the cause of the defects of defense products quality
  - Technical support of reliability assessment to the core parts and component
  - Analysis the causes of frequent faults
  - Analysis the reliability test of noise and vibration in the main equipment
- Stockpile Reliability Assessment Program
  - ASRP(Ammunition Stockpile Reliability Program) and CSRP(Chemical material Stockpile Reliability Program)
  - Enactment and revision of test procedures, research on the test/evaluation techniques and optimal operation plan

Defense Quality Society(DQS) | +82-55-751-5119

- Hosting Defense Quality Symposium and subcommittees' activity
- Publishing the Defense Quality Research Journal and DQS Magazine
- Hosting the innovation contest of quality and technology on the site of defense products

Defense Standardization

- Reviewing the suitability of defense standards including enactment, revision and abolishment
- Enactment and revision of defense standards and group standards
- R&D for the civil and military standards

Weapon System Supply Chain Management

- Annual survey and analysis of weapon system supply chains
- Status analysis and stockpiling of defense materials
- Investigation, analysis, and sharing for obsolescence and counterfeit prevention management

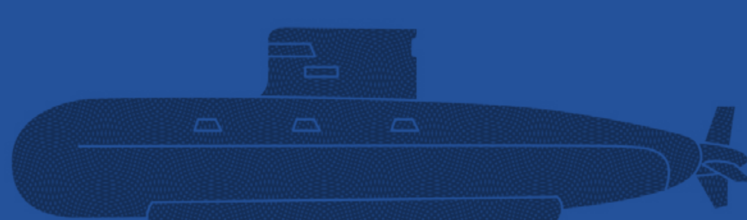
Airworthiness Certification for Military Aircraft

- Professional organization of airworthiness certification for the flight safety of military aircraft
- (Development phase) Confirmation to ensure of flight safety in aircraft design (Certification of type)
- (Production Phase) Confirmation of production capability to meet the design and establishment/sustainment of quality warranty system (Confirmation of Production)
- (Production/Operation Phase)
  - Airworthiness certification regarding the project to maximize the performance of existing military power
  - Effectiveness verification of engineering change and localized parts in application to aircraft
- (Airworthiness Study) Certification study about the policy, institution and standard

Security for Defense Industry Technology

- Preventing from a technology leakage and security infringement and supporting for the response
  - Identification of infringement details and leaked data through the precision log analysis when recognizing the defense industry technology leakage and attempt
  - Vulnerability inspection and support to information system in defense industry company
- Support to build a technology protection system
- Acknowledgement of defense industry technology, review technology transfer and export admission
- Fact finding on the defense Industry technology security

Defense Agency for Technology and Quality



What we do

01
Government Quality Assurance

02
Defense Reliability Research

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Defense Standardization

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Airworthiness Certification for Military Aircraft

05
Defense Industry Technology Security

01

Government Quality Assurance

Quality management is implemented across the entire lifespan from the birth of defense products through its production, operation and sustainment phases.

· Research & Development Phase
· Production Phase
· Operation and Sustainment Phase

Research & Development Phase

We enhance the reliability of munitions by maintaining the design integrity and conducting manufacturing readiness assessment of the weapon systems. Quality information collected in the development phase is utilized for quality assurance in the initial production stage, and the cost of project failure is reduced and schedule delays are prevented through quality improvement in the development phase.

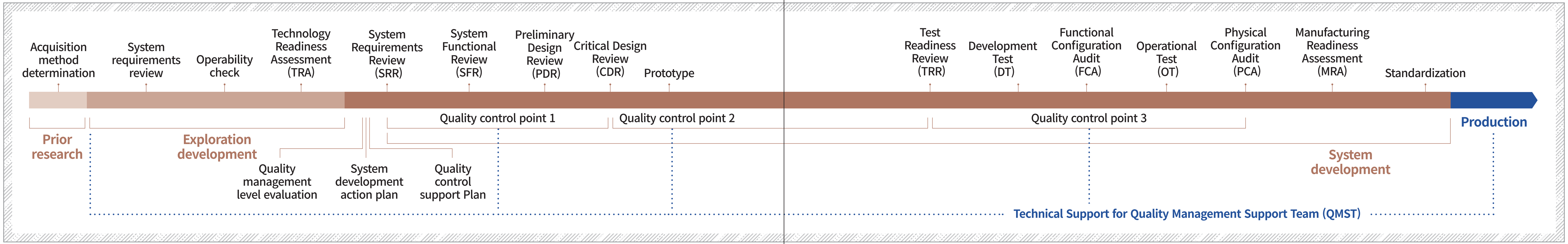
Main activities

- Quality assurance for the weapon systems in the R&D phase
  - Verifying important parts, components and prototypes
  - Verifying possibility of production through Manufacturing Readiness Assessment (MRA) and achieving early stabilization of the quality in production
  - Securing field operation quality by designing, testing, analyzing and verifying the reliability
  - Preventing accidents during field operation by preemptive management of hazard factors
- Completeness review of defense standards and drawings for production of weapon systems and follow-up logistics support
  - Preventing omission of reflection of operation performance and verifying compliance with standards
  - Supporting to improve the utilization rate of weapon systems by managing discontinued parts and components

Quality Management of Future Weapon System

DTaQ performs quality assurance for advanced weapon systems related to aerospace, cyber, and AI to respond to security threats from all directions based on the 4th industrial revolution.

- Quality Management of Space Weapon System
  - Specialized assurance of products designed for space weapon system projects characterized by extreme environmental conditions, where repair and performance improvement are impossible after launch
  - Quality management of supply chains for space weapon system, while considering the distinct attributes of the space environment
  - Establishment of standards and certification systems for testing and certifying components and parts used in space
  - Establishment of an infrastructure for extreme space environmental testing and reliability testing
- Quality Management of Cyber Weapon System
  - Research on quality management of cyber weapon system, considering safety and security
  - Engagement in the Korean Risk Management Framework (K-RMF) to bolster the weapon system security
- Quality Management of Hi-tech Weapon System
  - Research on AI-based intelligent and autonomous quality evaluation techniques for manned and unmanned systems
  - Research on and participation in performance evaluation for ensuring the quality and reliability of advanced technology-based weapon system



Production Phase

DTaQ systematically manages whether produced munitions meet the conditions required by the user to enhance the satisfaction of the military units. In accordance with the 「2019-2023 Master Plan for Military Goods Quality Assurance」 confirmed in July 2019, DTaQ focuses on quality assurance in the initial production phase and expands voluntary quality assurance in the full-rate production phase.

Main activities

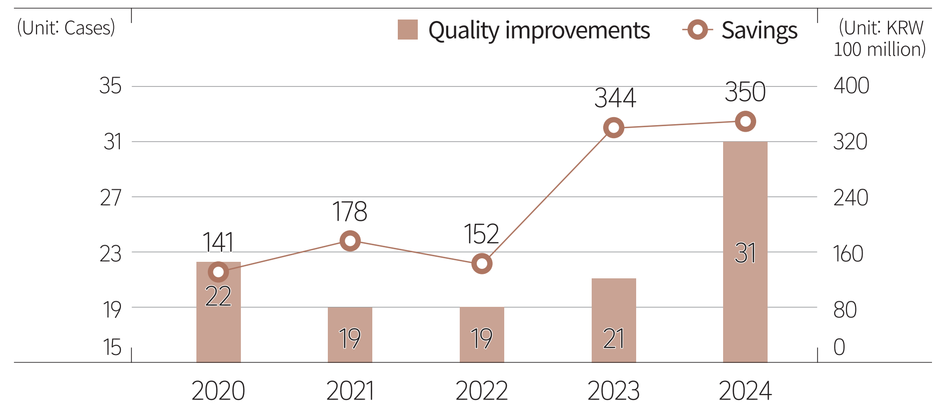
- Production phase quality assurance and issuance of inspection report
  - Target: Munitions of government procurement contracted by the Defense Acquisition Program Administration (including consigned purchases by Public Procurement Service) and items exported to nations with international quality assurance agreements
  - Procedure

Preparation	Planning	Implementation
Reviewing contract requirements and contract documents, etc.	Reviewing manufacturers' quality assurance plan, identifying and evaluating hazards and establishing government quality assurance plan	Evaluating quality management system, reviewing the process, verifying and auditing products, conducting corrective measures, controlling configuration, etc.

- (Initial production) Early quality assurance through intensive management of the first contracted weapon systems
  - Focusing on improvement of design error and early stabilization of the manufacturing process
- (Full-rate production) Efficient quality assurance based on risk management
  - Expanding manufacturers' voluntary quality assurance and providing customized technical support

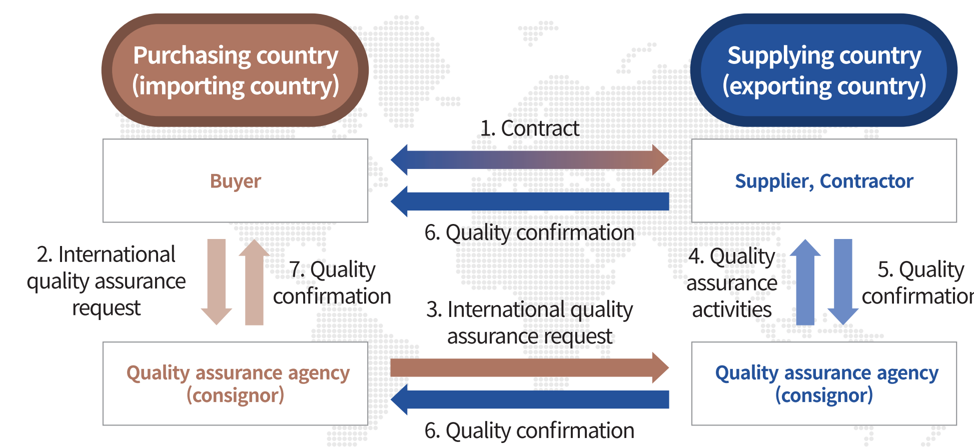
- Value engineering to improve munitions and productivity through quality information collected during the quality assurance process or after delivery
  - An average of KRW 23.3 billion savings in defense budget over the past 5 years

Achievements of Quality Improvements



International Quality assurance Agreements and Cooperation

- Providing government quality assurance services and cooperation for import and export munitions between governments in accordance with international quality assurance agreements
- Enhancing reliability of imported items through exporting country's quality assurance
- Export product quality assurance to support the export of defense materials
- Strengthening international quality assurance techniques and exchanging institutions
- Operating overseas offices to promptly respond to quality issues with imported munitions and to promote cooperation in quality assurance technology with nations possessing advanced weapon systems(U.S., Germany, Poland)



Defense Quality Management System (DQMS)

DTaQ grants certifications to qualified manufacturers by examining whether the company establishes, implements, and sustains a quality management system in accordance with the requirements of the defense quality management system certification standard (defense standard KDS 0050-9000).

• Evaluation Criteria

Classification	KDS 0050-9000		
	Requirements	Additional Requirements	
		Logistics Characteristics	Guaranteeing the Authority of the Government officer in charge of Qquality assurance
Main contents	ISO9001	Configuration management, quality assurance activity plan, shelf life product management, counterfeiting or falsification prevention, etc.	Using quality records, special approval in case of nonconforming products, etc.

• Certification process

Certification application After consulting with the relevant department, submit the application → **Certification review** 3 Steps: Document → On-site → Confirmation → **Certification review** → **Certificate issuance** Defense Acquisition Program Administration → **Follow-up management review and renewal review**

• Certified producer benefits

- Additional points for technical competency in case of competitive bidding for a contract
- Additional points for the management effort when calculating the cost of defense materiel
- Additional points for technical competency when selecting a weapon system R&D project company
- Additional points for technical competency when selecting proposals for production stage producer
- Additional points when selecting a target for fostering small and medium-sized companies in the global defense industry
- Additional points when selecting a producer to support for weapon system development
- Additional points when selecting companies to support the discovery of promising export items
- Exemption from factory inspection in case of DQ mark certification
- Downgrade of quality assurance type for performing government quality assurance for defense products

DQ (Defense Quality) mark Certification

DTaQ identifies the export potential by evaluating the technology and quality of defense materials and munitions produced by domestic manufacturers or modified and developed for export and grants the DQ mark to excellent products.
* DQ: Defense Quality

• Certification Process

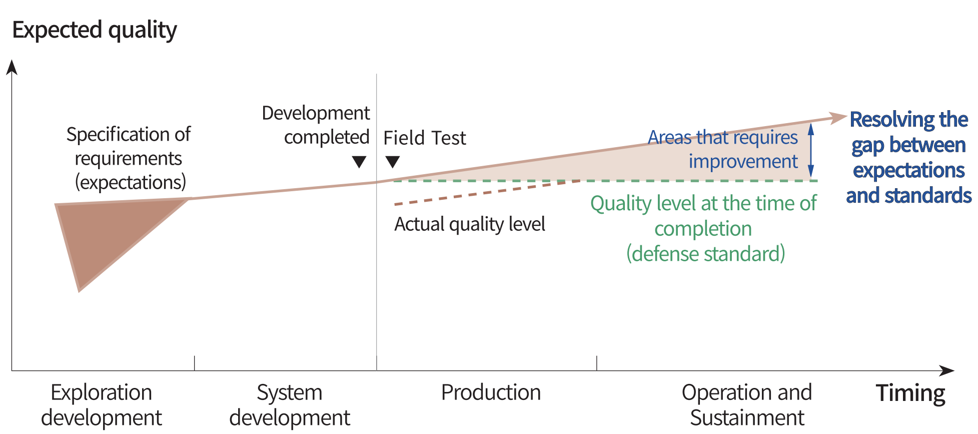
• Benefits of certified producers
- Increased export as evaluated to produce excellent items with certification
- Improved brand awareness as SMEs
- Permission to use DQ mark and priority support related to export
  * DQ mark can be used on products, packaging and promotional materials for 4 years (renewable)
  * Offset negotiation item recommendation, promotional material production, export manpower training, exhibition expense support, etc.

Operation and Sustainment Phase

DTaQ supports the operation of the weapon systems in the best possible condition, by investigating, analyzing, and applying matters that require improvement of performance and quality and collects complaints that soldiers experience while operating and maintaining to resolve them in a timely manner.

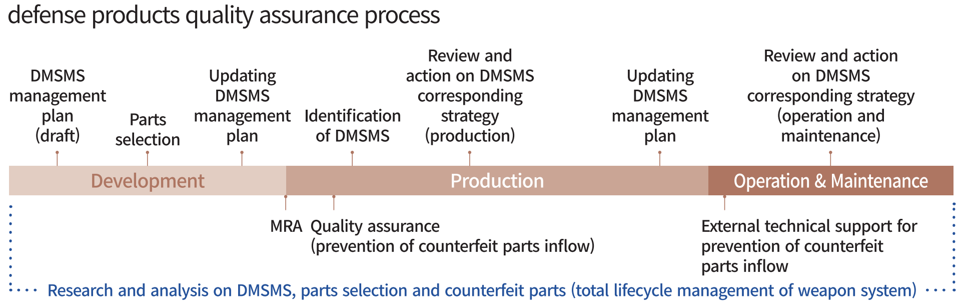
Product Improvement Program (PIP)

- Increasing effectiveness of combat power, quality, operability and equipment availability through swift performance improvements in deployed weapon systems
- Expected results
  - Improving military combat power and obsolete weapon systems technology
  - Securing new growth engines for the defense industry by improving weapon systems
  - Creating a virtuous cycle in the defense industry, such as strengthening export competitiveness through improvement of durability performance
- Final objectives
  - Improving combat power and strengthening the competitiveness of the defense industry



DMSMS and Counterfeit management

- Minimizing the impact of obsolescence parts on defense products and support activities to enhance equipment availability and preventing the influx of counterfeit parts during the defense products quality assurance process



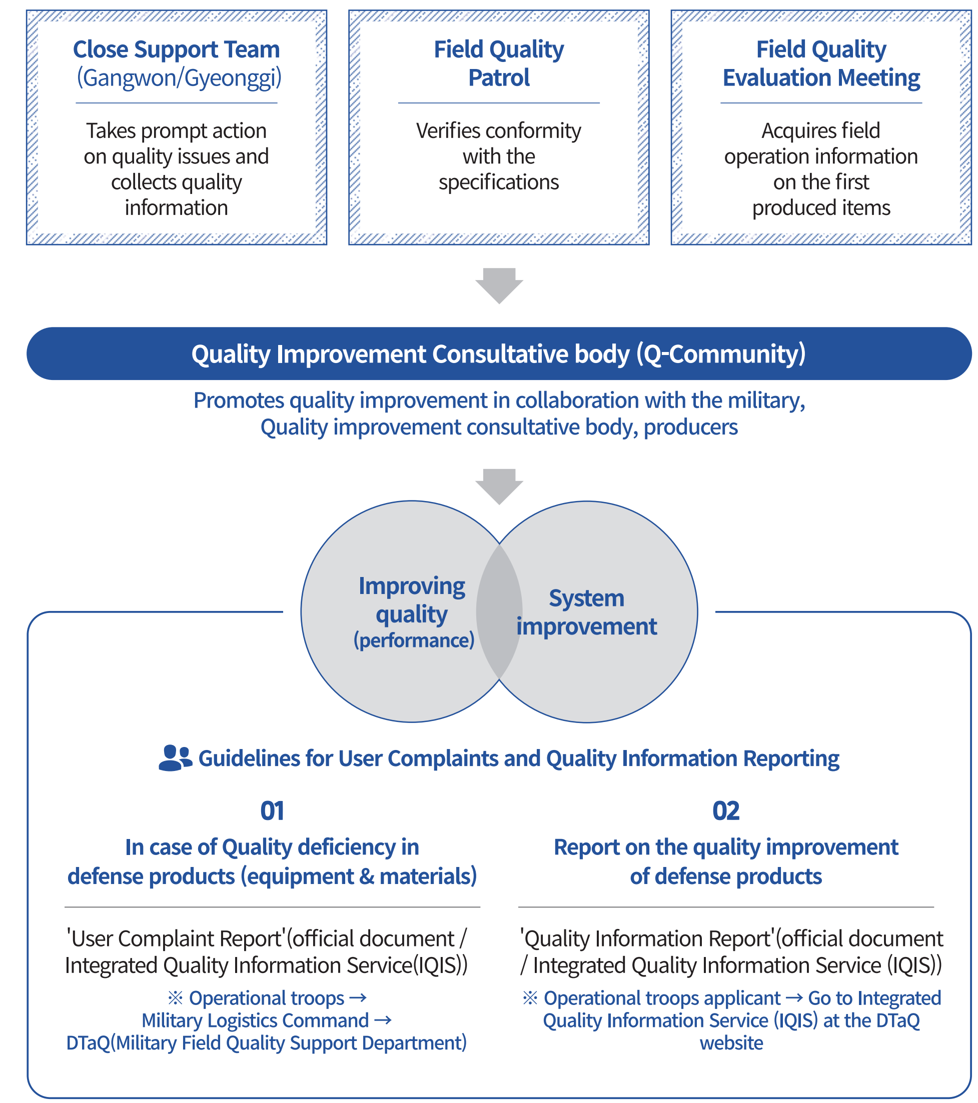
* DMSMS : Diminishing Manufacturing Sources and Material Shortages

Depot Performance Improvement

- Research on preliminary identification of improvement needs and validating improvement plans for depot performance improvement
- Research contents
  - Survey of needs: Improvement needs of operators and production, technology change history, frequent defects, etc.
  - Establishment of improvement plan: Feasibility of improvement, improvement methods, estimated costs and timeline analysis
  - Business proposal to adopt performance improvements

Technical Support to Military Units

Through user-oriented technical support, DTaQ collects inconveniences experienced by soldiers while operating and maintaining munitions to resolve them in a timely manner and improves continued quality improvement through quality assurance.



02

Defense Reliability Research

DTaQ contributes to the reliability assurance of defense products throughout its entire lifecycle by gathering data during the development, production and operational maintenance stages and conducting reliability analysis, assessment and research.

In order to secure the reliability of the developmental equipment and to improve the operation rate of the products, DTaQ participates in technical support and reliability evaluation throughout the entire acquisition process, which makes more efficient total life cycle management of defense products.

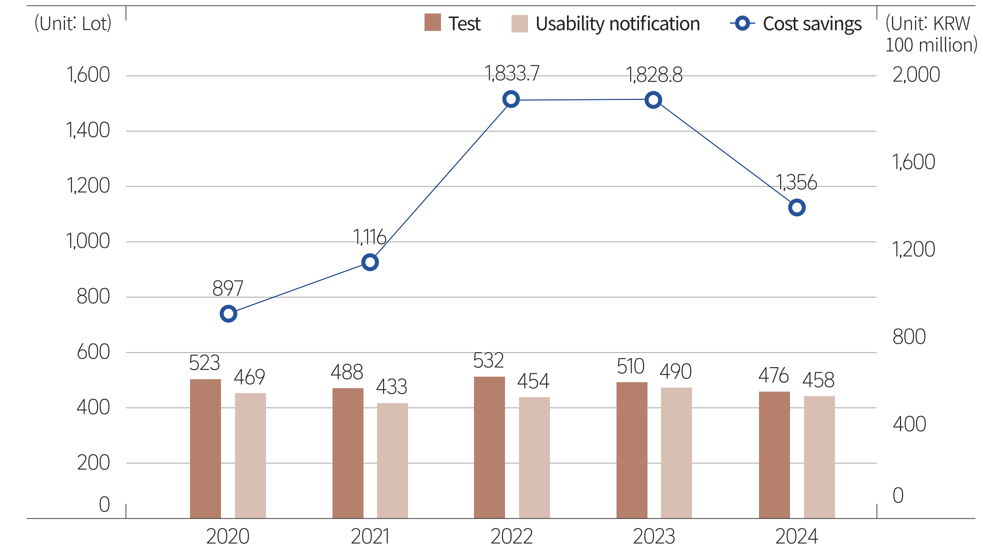
Defense Reliability Research

The DTaQ conducts diverse reliability research spanning the entire military equipment acquisition life cycle, including weapon system RAM activities; SW quality control during development and production phase; and ammunition and chemical material stockpile reliability program.

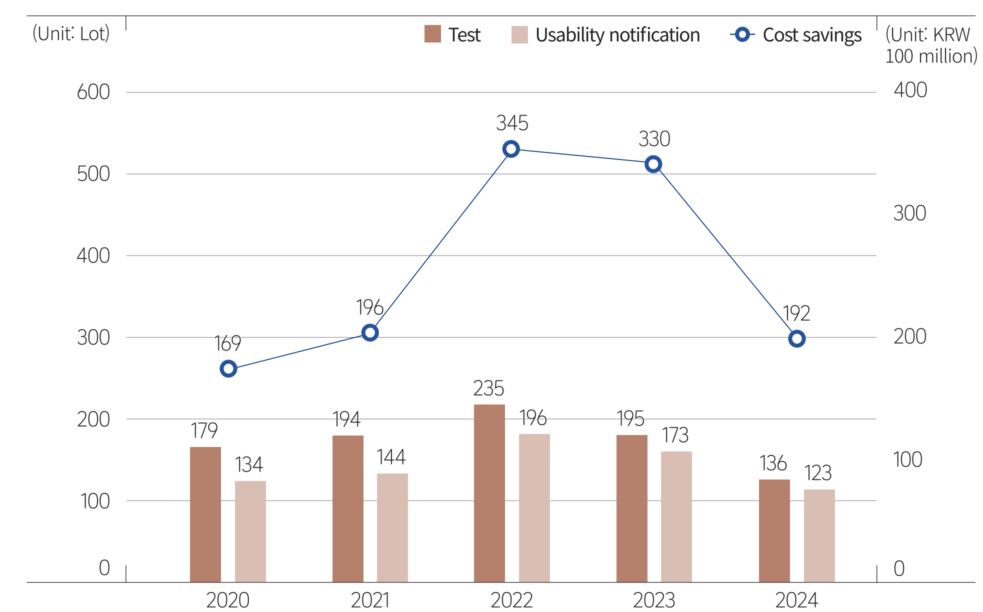
Main activities

- Weapon System RAM Activities by Acquisition Phase
  - (Acquisition) Supporting for setting RAM target
  - (Development) Reviewing of RAM analysis plan and verifying of RAM data
  - (Production·Operation) Analysing RAM of field operational data and identifying common defective products
- SW Quality Control during Development and Production Phase
  - (R&D) Technical support for SW quality control at different stages of weapon system development
  - (Production & Operation) Production SW quality assurance and technical support for configuration control
  - Research on feedback to weapon system SW defects
- Reliability assessment to determine the causes of causes of defense products quality problems
  - Technical support for reliability evaluation of core parts and components
  - Cause analysis for common defective products
  - Noise and vibration test for major equipment
- Stockpile Reliability Assessment Activities
  - ASRP (guided·general munition) and CSRP
  - Research on establishment and revision of test procedures, test & evaluation techniques and optimal operation plan

• Achievements of Ammunition Stockpile Reliability Program (ASRP)



• Achievements of Chemical Material Stockpile Reliability Program (CSRP)



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Defense Standardization

DTaQ is a professional organization in defense products standardization, defense specification enhancement and defense standard research.

DTaQ strengthens the foundation for defense production through the improvement of defense specifications; establishment and revision of military standards and group standards; and research on standardization of civilian and military specifications.

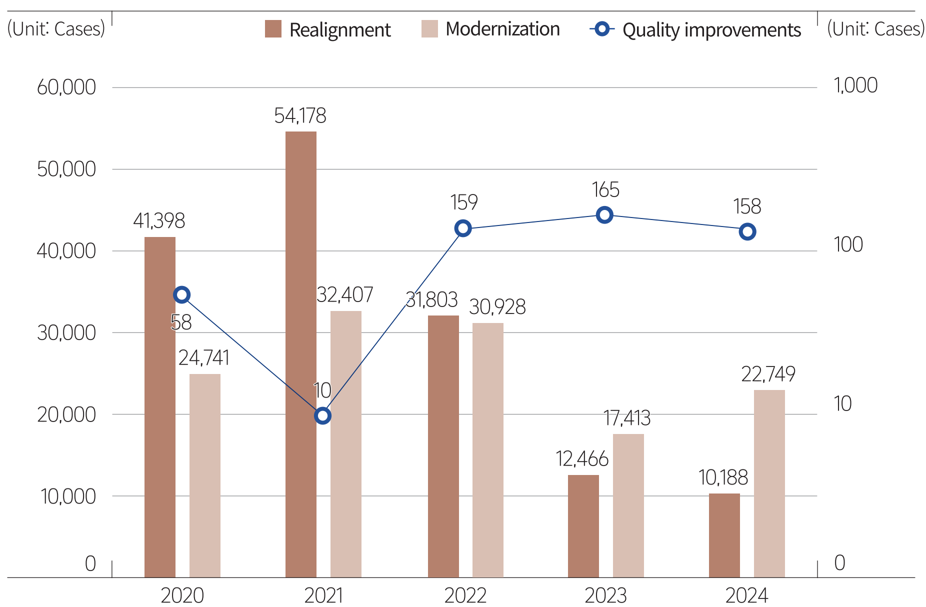
Defense Standardization

The DTaQ, the defense standardization professional organization, continuously updates and rationalizes defense specifications and promotes mutual technical exchange between civilian and defense specifications to adopt the latest technology and acquire military supplies in economic and efficient ways.

Main activities

- Defense Specification Improvement Project
  - Rationalizing outdated defense specifications and updating and standardizing raw materials to ensure the quality of military supplies and reduce cost of acquisition

Achievements of Defense Specification Improvement Project

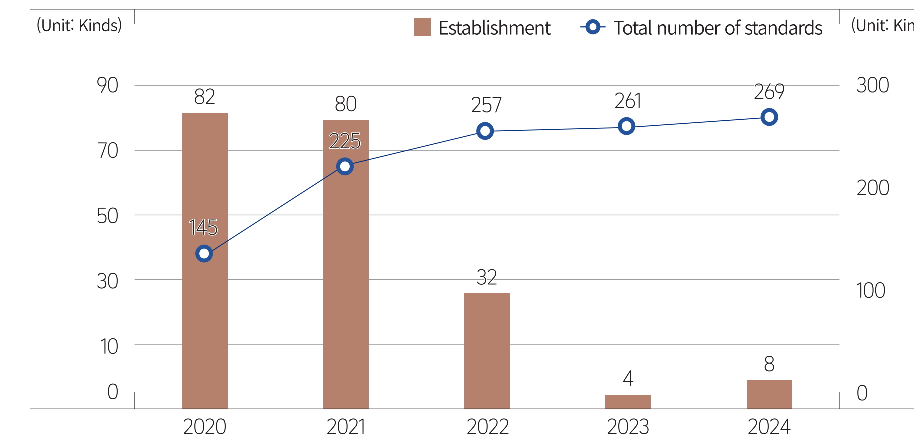


* Annual average improvement of about 200 specification, 32,000 drawings, 1,600 quality assurance report (QAR)

- Establishment and revision of defense standard
  - Dedicated to technical review for effective and specialized military standards to establish and revise defense standards
  - Review and management of the suitability of defense standards (revision, termination, publication, etc.)
  - Research on invigoration of defense standards system

- Establishment & revision of group standards
  - Establishment & revision group standards through enhancing the quality of military supplies and promoting fair practices and standardization in transactions for consumer rights protection
  - Reducing product defects and user complaints and saving national defense budget through standard-based production and quality management as the sole registered institute for group standard in the defense industry

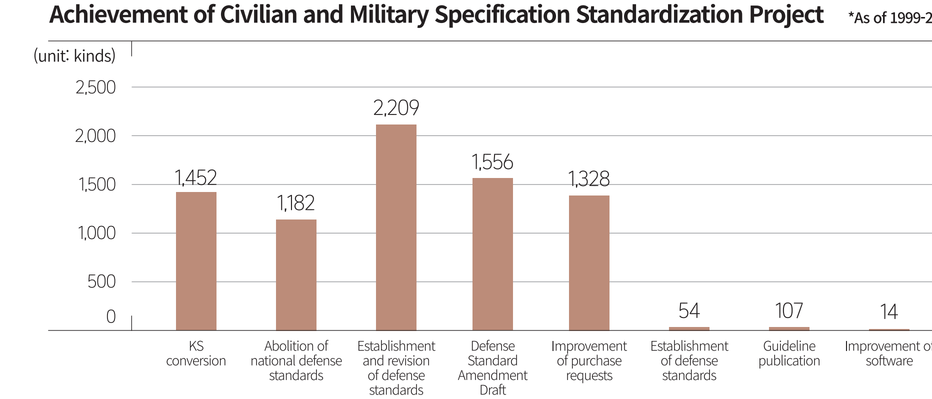
Achievements of Group Standards



* Group standards: Standards for symbols, terms, performance, procedures, methods and techniques applied to professional fields

- Civilian and Military Specification Standardization Project
  - Under the Promotion of Technology Projects for Joint Civilian and Military Use Act, enhancing technology cooperation between the military and non-military sector and conducting research on standards for universal application
  - Strengthening industrial competitiveness and national defense by rationalizing unnecessary specifications and developing domestic and international standards for civilian and military use

Achievement of Civilian and Military Specification Standardization Project *As of 1999-2024



*Standard development for civilian and military use is being promoted, linked with promising future technologies.

04

Airworthiness Certification for Military Aircraft

DTaQ is a professional organization in airworthiness certification for military aircraft to ensure flight safety and provide export support.

DTaQ assesses military aircraft to ensure they perform safely and effectively. And it also engages in research related to airworthiness certification systems, policies and standards.

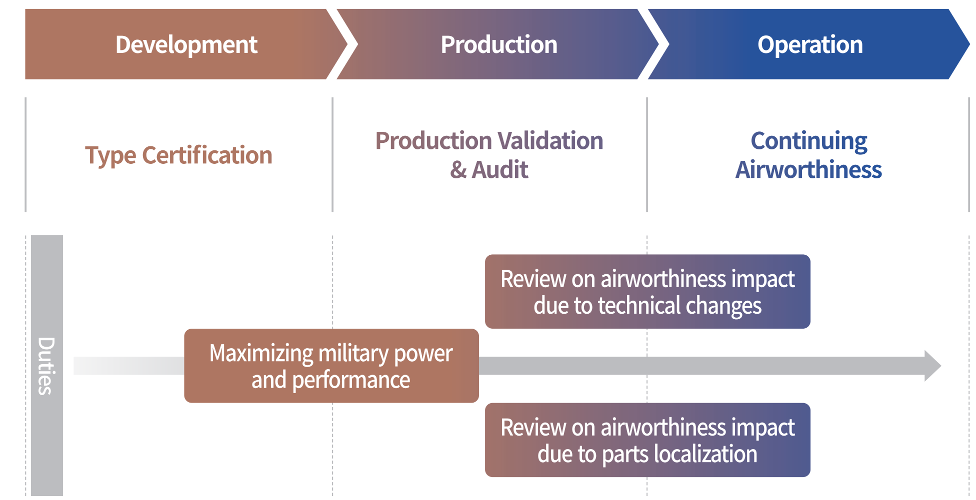
Airworthiness Certification for Military Aircraft

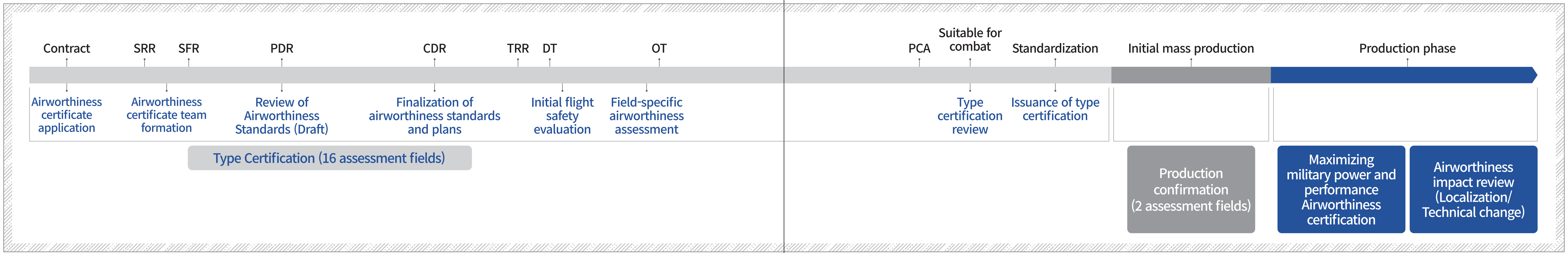
DTaQ conducts a type certification that certifies the adequacy of design in terms of flight safety and production verification to confirm the production system. In addition, technology (design) changes applied to aircrafts subject to airworthiness certification and airworthiness impact review of parts developed for localization are carried out.

Main activities

Classification	Performance Phase	Characteristics
Type Certification	Development	Evaluation of flight safety compliance in the design of military aircraft
Production Validation	Production	Establishment and maintenance of technical, facilities, workforce and quality assurance systems to manufacture products according to the design
Review on airworthiness impact due to technical changes	Production	Flight safety impact assessment due to technical changes in aircraft systems
Maximizing military power and performance	Production and Operation	Airworthiness certification for programs aimed at swiftly addressing improvement needs of military aircraft
Parts Localization		Flight safety impact assessment for aircraft with domestically produced parts (DTaQ's development and management item)

- Research on military aircraft certification system, policies and standards
  - Analysis of latest trend and standard on domestic and international airworthiness certification and research on its domestic applicability





05

Defense Industry Technology Security

DTaQ protects defense industry technology against the risks of technology leakage and infringements.

DTaQ's responsibilities include addressing the growing threats of technology leakage and infringement which have increased alongside the advancement and export expansion of defense industry technology.

Defense Industry Technology Security

DTaQ protects defense technologies by monitoring defense companies' security control and technology protection practices, assessing vulnerabilities and implementing technology control measures to counteract the risk of defense industry technology leakage, infringements and cyber threats resulting from its rapid advancement and sophistication.

Main activities

- Prevention and assistance for technology leakage & infringement
  - Identifying the circumstances and leaked information through meticulous log analysis when defense companies were detected or suspected to respond technology leakage incidents
  - Supporting and evaluating vulnerability in the information systems of defense companies
- Support for establishing technology protection system
  - Implementing and operating cyber security monitoring system for defense companies
- Assessment of defense technology and review on technology transfer/export permit
  - Evaluation of relevant technologies such as defense technology and military supply assessment
  - Technology review related to technology transfers and export permits
- Defense technology protection survey
  - Conducting a survey of defense technology protection system in defense companies

The Need for an Institution specializing in Technology Protection and Management in Defense industry

Increased Technology Threats

- Changing global competitiveness centering on intellectual assets such as technology
- Convergence of infringing technologies and techniques
- Increasing technology theft through legitimate manner

Rising Competitiveness of Defense industry Technology

- Ranked 9th for defense science and technology in the world
- Ranked 9th in global arms export share in 2016-2020

Technology Advancement

- Increased high-tech R&D achievements centered on private companies
- Increased demand for expertise in technology identification and strategic material determination due to technological advancement and convergence

☑ Private companies' insufficient awareness and capacity on technology protection

☑ The constraints faced by defense companies in responding to advanced and sophisticated technological threats

Expansion of protected technologies

Urgent need for government's professional support to protect technologies

Needs for systematic and professional technology protection

Specialized + Dedicated + Unified

☑ Diversification and advancement of export items

☑ Increased export and technology transfer

Intensified screening difficulty for skill identification

Expansion of types and scope of technology, materials subject to export control

Urgent need to secure expertise in technical management

Defense Quality Society (DQS)

Playing a key role as the think-tank of defense quality field, Defense Quality Society (DQS) promotes cooperation and exchange of best practices among military, industry, academia and government organizations.

국방품질연구회
Defense Quality Society

- Chairman *President of DTaQ
  - Audit
  - Advisory Committee
  - Board of Directors
    - Secretariat
    - Defense Quality Managment System Policy
    - Defense Certification Policy
    - Defense Software
    - Defense Reliability
    - Aviation and Airworthiness
    - Shock and Vibration
    - Weapon System Supply Chain Management
    - C5ISR
    - Safety and Quality of PGM & Ammunition
    - Defense Standardization
    - Big Data-based Operability
    - Space Satellite
    - AI and Cyber

Policy/System	Academic Activities	Industry-academia Collaboration
Research on defense quality management theory and policy/system	Academic conference and competition, scholarly journal and magazine	Operation of Specialized Subcommittees/ Technical Exchange

Journal of DQS
<KCI accredited journal>

Online Magazine
<www.dtaq-media.kr>

Talent Acquisition

We look forward to working with top talents who will lead the future of Defense Agency for Technology and Quality.

Ideal Talent

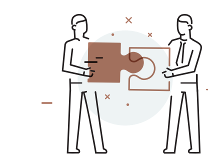
Human resource fostering orientation
Individuals trusted as the nations's top professionals in the field of defense technology and quality

Innovative and convergent

- Individuals who can innovate and converge their expertise in quality assurance of military equipment with DTaQ's strategy

Pursuit of expertise
Customer-centered

Passionate



- Individuals who prioritize customers
- Individuals who enthusiastically handle their tasks with positive thinking and confidence

Passion | Customer satisfaction
Teamwork (diligence)
Positive thinking and self-assurance

Innovative

- Individuals who innovate technology planning and quality assurance process
- Individuals who diligently handle their tasks with responsibility and a sense of ownership

Diligence
Responsibility and a sense of ownership

Job positions

Researchers | Management | Administrators | Technicians | Security guards and janitors

Hiring Procedure

Via blind hiring program

1. **Document screening**
   - Meeting minimum qualification
2. **Examination**
   - National Competency Standard Test
   - Personality test
3. **Interview**
   - Comprehensive job competency test

With hot passion and with cold dispassionateness
For happy and strong Korea that Korean people dream of
DTaQ's challenge will never stop.

By performing professional work for the military trusted by the people,
DTaQ will leap forward as a quality innovation research organization in the
total life cycle of defense acquisition.