

A Study on Suggesting a Road - Map for Improving the Quality of Rescue

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Abstract

Along with the increase in demand for rescue services, the types of rescue services are also diversifying. Accordingly, rescue workers are exposed to various unpredictable dangerous situations, and the possibility of safety accidents is increasing, so the need for systematic management of safety accidents by rescue teams is emerging. It is necessary to present a roadmap for improving the quality of rescue services. An integrated technology roadmap tool that can be used immediately to improve structural quality was applied. The driving elements of the roadmap are composed of three elements that constitute the improvement of structural quality. It can be divided into safety management, professional competence and other (policy support) fields. This study intends to present a long - term and short - term roadmap by dividing it into safety management, professional competency, and other (policy support) fields.

Keywords : The quality of rescue, Safety management, Professional competence and other (policy support) fields, Long - term and short - term roadmap

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[Figure 1] 3 factors for rescue quality improvement

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<Table 1> Road - Map for Improving the Quality of Rescue

Division	Short term	Long term
Safety management	Rescue quality improvement plan (I)	
	<ul style="list-style-type: none"> • (Manpower)Deploying a competent rescue team • (Education)Operation of physical fitness program • (Education)Training specialized for rescue sites • (Policy)Introduction of the post-review system for rescue activities • (Training)Provide sufficient information about the rescue activity space • (Training)Implementation of enhanced fire drills • (Equipment)Prompt supply of rescue equipment suitable for the site(Field activity wireless communication equipment for squads, etc.) • (Equipment)Periodic equipment inspection 	<ul style="list-style-type: none"> • (Manpower)Expansion of rescue teams • (Manpower)Establishment and arrangement of role sharing standards • (Manpower)Establishment of a dedicated field safety department • (Education)Prepare measures to foster safety awareness • (Policy)Operation of competency enhancement program • (Policy)Dissemination of rescue manuals by type • (Policy)Recovery support vehicle operation • (Policy)Establishment of site safety management manual • (Policy)Introduction of effective evaluation system • (Equipment)Establishment of safety equipment standards
Professional competency	Rescue quality improvement plan (II)	
	<ul style="list-style-type: none"> • (Manpower)Placement of Qualified Persons in Life Census • (Equipment)Introduction of specialized rescue equipment • (Equipment)Rapid replacement of aging equipment • (Education)Implementation of education suitable for the promotion class • (Education)Expansion of training to improve rescue sites and professional competency • (Education)Expansion of educational opportunities through external institutions • (Education)Expansion of specialized education such as mountaineering and suffering 	<ul style="list-style-type: none"> • (Manpower)Establishment of long-term work system • (Manpower)Establishment of minimum working years system (10 years) • (Education)Preparation and dissemination of a detailed rescue manual • (Training)Expansion of comprehensive training facilities for each team • (Training)Expansion of training facilities suitable for specific disaster sites • (Training)Expansion of intensive training facilities for real fire (rescue) • (Training)Securing a fire-fighting pool (reinforced water rescue technology)
Others (policy support)	Rescue quality improvement plan(III)	
	<ul style="list-style-type: none"> • (Manpower)Placement for Teamwork • (Manpower)Recruit of additional points for heavy duty department • (Education)Distribution of equipment usage using video • (Education)Daily education and training for off-duty use • (Policy)Life safety rescue is handled by the 119 Safety Center • (Policy)The realization of firefighting technology content • (Policy)Reduction of the number of firefighting technology contents • (Policy)Eliminate unnecessary administration • (Policy)Abolition of the dispatch system for the Citizens' Water Rescue Team • (Equipment)Shorten the purchase period for essential rescue equipment • (Equipment)Securing specialized equipment purchasing system for each fire department • (Equipment)Actively collect the opinions of rescue workers • (Equipment)Improvement of rescue suit 	<ul style="list-style-type: none"> • (Manpower)Recruitment and preparation of specialties in rescue(water, heavy, chemical, etc.) • (Manpower)Expansion of rescue teams in the area • (Manpower)Expansion of the ratio of special recruitment • (Education)Establishment of on-site safety education system through VR experience • (Education)Establishment of a system so that local fire schools can take the life census test • (Education)Expansion of the life census test • (Policy)Handed over to firefighters in general rescue work ■ Additional Requirements <ul style="list-style-type: none"> - (Manpower)Requires additional training such as rescue techniques - (Equipment)Loading rescue equipment into the pump vehicle • (Policy)Minimization of work in the field of life safety rescue • (Management)Reinforcement of professional competency of fire departments by region

6. References

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