

Questionnaire to identify teamwork-related resources and stressors in firefighting operations (REST-Q Fire)				
Category	Subcategory	Items		
Communication	Passing on information within the squad	Information was not passed on at all or too late and/or there was no coordination. (S_Com1)		
(Com)		Information was passed on in time and/or brief consultations took place. (R_Com1)		
	Passing on information between the fire	Information was not passed on at all or too late and/or there was no coordination. (S_Com2)		
	brigade's task forces	Information was passed on in time and/or brief consultations took place. (R_Com2)		
	Quality of information	The information passed on was incorrect, inaccurate and/or incomplete. (S_Com3)		
		The information passed on was clear, unambiguous and/or correct. (R_Com3)		
	Amount of information	There was an unnecessary amount of talking (e.g., too much discussion; too much information at once). (S_Com4)		
		There was as much talking as necessary but as little as possible (e.g., enough detail but no unnecessary information/discussion).		
		(R_Com4)		
	Communication with third parties	Information was not passed on at all or was incomprehensible to the other parties involved (e.g., railroad-typical terms;		
		involvement of police and other fire units/firefighting groups). (S_Com5)		
		Information was passed on in a timely and understandable manner (e.g., terms understood by all). (R_Com5)		
	Shared Situational Awareness	The impressions perceived by one firefighter were not passed on to the other firefighters, so that no shared picture of the situation		
		emerged. (S_Com6)		
		The impressions perceived by one firefighter were passed on to the other firefighters and compared with the perceptions of the		
		others, so that a shared picture of the situation was created. (R_Com6)		
supporting	watch out for / check on each other	Firefighters did not pay attention to each other (e.g., did not check on each other; did not point out mistakes and/or hazards to		
behavior (Sup)		others; did not intervene even when hazards were identified) (S_Sup1)		
		Firefighters paid attention to each other (e.g., checked on each other; pointed out mistakes and/or (potential) hazards to others;		
		intervened when needed). (R_Sup1)		
	Behavior of team members	One or more firefighters behaved in a hectic, selfish, and/or unprofessional manner. This created stress and transferred to others.		
		(S_Sup2)		

		One or more firefighters behaved in a calm and considered, team-oriented manner and/or provided affirmation to other firefighters
		(e.g., praise; patting on the back). This reduced stress and transferred to others. (R_Sup2)
	Respond to the needs of others	The firefighter ignored the needs of the other and did not provide support. (S_Sup3)
		The firefighter was responsive to the other person's needs and attempted to provide support. (R_Sup3)
	Supportive behavior/ support not possible (2	Firefighters did not notice that a member of the group needed assistance and/or did not offer assistance (e.g., one person had to
	stressors)	work alone while others had spare capacity; no contribution of ideas/expertise). (S_Sup4)
		Firefighters noticed that a member of the group needed assistance but were unable to help (e.g., because the path was blocked).
		(S_Sup5)
		Firefighters noticed that a member of the group needed assistance and assisted when possible (e.g., it was natural for everyone to
		pitch in when possible; contributing ideas/expertise). (R_Sup4)
	Reliability of team members	Tasks were not performed at all or were not performed conscientiously and/or one or more firefighters did not take their duties
		seriously. (S_Sup6)
		Tasks were completed reliably and on time and/or the firefighters worked with motivation and the necessary seriousness. (R_Sup5)
leadership (LS)	Hierarchy/ followership	The firefighter followed the leader's instructions without voicing his/her concerns or opinion. (S_LS1)
		The firefighter thought for him/herself and expressed his/her concerns or opinion to the leader. (R_LS1)
	Structure/ hierarchy	There were no clear leadership structures (e.g., it was not clear who should give which orders to whom) and/or leadership tasks
		were not performed adequately (e.g., no orders; necessary decisions were not made). (S_LS2)
		There was a clear structure and hierarchy in the team (e.g., adherence to command structures) and leadership tasks were fulfilled
		(e.g., maintaining an overview; directing course of action). (R_LS2)
	Insufficient consideration of hazards and	Potential hazards and/or operational standards were not considered by one or more leaders (e.g., no functioning respirator
	operational standards	monitoring; inadequate scene reconnaissance). (S_LS3)
		One or more leaders considered potential hazards and/or operational standards (e.g., warned of hazards; ensured timely retreat).
		(R_LS3)
	Behavior of leaders	One or more leaders behaved in a hectic, uncertain and/or uncoordinated manner. This created stress and transferred to others.
		(S_LS4)
		One or more leaders behaved in a calm and level-headed, structured and/or supportive manner. This reduced stress and transferred
		to others. (R_LS4)

shared mental	Knowledge about common course of action	Firefighters lacked information on the course of action and objective of the operation (e.g., sequence of steps; operational strategy).
	Knowledge about common course of action	
models (SMM)		(S_SMM1)
		All firefighters knew the course of action and objective of the operation and everyone knew what to do (e.g., everyone knew the
		operational tactics and their tasks). (R_SMM1)
	Knowledge about skills and behavior of team	The firefighters knew each other poorly or insufficiently (e.g., skills; strengths and weaknesses; personality) and were therefore
	members	unsure whether they could rely on each other. (S_SMM2)
		The firefighters knew each other (e.g., skills; strengths and weaknesses; personality) and were therefore able to assess each other
		well during operations and/or knew whether they could rely on each other. (R_SMM2)
	Interpositional knowledge	The firefighters did not know enough about the other functions in the firefighting platoon and their duties (e.g., engineer has little
		knowledge of the water trooper's function), so they could not assess what the other person needed at the time (e.g., information)
		and/or how their own actions affected the others. (S_SMM3)
		The firefighters knew the tasks in the other functions well enough that they could assess what the other person just needed (e.g.,
		information) and/or how their own actions affected the others. (R_SMM3)
organization/coor	Task allocation	Tasks were not distributed at all or not evenly, so some firefighters had to do too many tasks at the same time (e.g., listening in on
dination (O&C)		the radio, issuing materials, and monitoring breathing apparatus). (S_O&C1)
		Tasks were clearly and evenly distributed so that loads were spread and/or no one was overwhelmed with too many tasks.
		(R_O&C1)
	Self-initiative and independence (2	One or more firefighters acted on their own authority during the operation without consultation (e.g., independently changed
	stressors)	course of action). (S_O&C2)
		One or more firefighters had to be asked to perform every single step (e.g., put on protective equipment). (S_O&C3)
		The firefighters recognized possible tasks, acted independently and, if necessary, coordinated work steps on their own initiative
		(e.g. information about their own course of action). (R_O&C2)
	Standards and safety measures	Firefighters did not adhere to standards and safety measures (e.g., securing the return path), putting themselves and/or others at
		risk. (S_O&C4)
		Firefighters adhered to standards and safety measures (e.g., squad stayed together; followed reporting routes), avoiding dangerous
		situations for themselves and others. (R_O&C3)
decision-	(support of) decision makers	It was not clearly defined who had to make this decision and/or the decision was made by someone who did not have the necessary
making (DM)		information/skills. (S_DM1)

	Decision-making structures were clearly established and/or the decision-maker was provided with the necessary information so
	that he or she could make the decision. (R_DM1)
Decision in case of situation change/ decide	New information about a change in the situation was not used (e.g., new source of fire) to decide on an adjusted course of action.
between different alternatives (2 stressors)	(S_DM2)
	When an important decision had to be taken, several alternatives were available and firefighters had to decide (e.g., which person
	would be rescued first; firefighting or human rescue; degree of deviation from accident prevention regulation during human
	rescue). (S_DM3)
	Firefighters used new information to reassess the situation and decided to change the plan if necessary. (R_DM2)