### IUSARGames2018 INTERNATIONAL UNIVERSITIES SEARCH & RESCUE GAMES APPLICATION GUIDLINES

### 1. COMPETITIONS WITHIN THE SCOPE OF INTERNATIONAL UNIVERSITIES SEARCH & RESCUE GAMES (IUSARGames2018):

There will be 5 stages of competition within IUSARGames2018 Search & Rescue Games.

- a. ORIENTEERING (TARGET FINDING),
- b. CLEAN DEBRIS REMOVAL AND RESCUE FROM WRECKAGE,
- c. RESCUE FROM VEHICLE AND FIRST AID,
- d. RESCUE BY USING AERIAL LINE,
- e. CONCRETE BLOCK DRAGGING,

#### 2. HURDLE STAGE

a. Prior the stages of "Clean Debris Removal and Rescue from Wreckage", "Rescue from Vehicle and First Aid" and "Concrete Block Dragging", competing teams will pass through the hurdle stage and reach the competition start point. Time spent in the hurdle stage will be added to the duration of stages. Referees will ensure that all the rules are applied by the contestants during the hurdle stage.

b. Hurdle stage will be between 300-500 meters, determined according to the competition area. The stage will consist of;

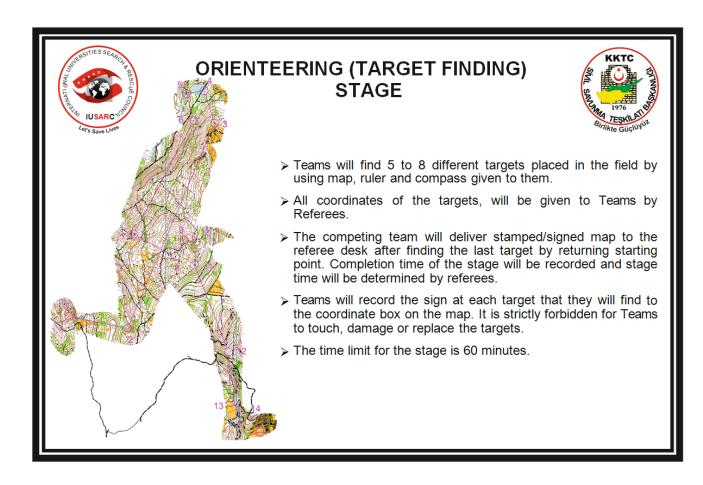
- (1) Co-ordinated team walk with timber,
- (2) Balance walking on timber,
- (3) Hurdling the hollow,
- (4) Hurdling the obstacles with tyres,
- (5) Hurdling the maze,
- (6) Hurdling with a hanging rope,
- (7) Passing through the concrete tunnel and
- (8) Rope climbing.



#### 3. COMPETITION RULES

#### a. Orienteering (Target Finding) Stage

- (1) Teams will find 5 8 different targets placed in the field by using the map, ruler, coordinates and the compass provided to them by the organizers of the competition.
- (2) Referees will prepare the targets in the specified points. Coordinates of the points of targets will be determined by the referees.
- (3) The competing team will be given the information of the coordinates by the referees and the referees will start the stage by noting the time of start. A map, a compass and a ruler will be provided to each team. All electronic devices and mobile phones must be left on the referee desk during the competition stage.
- (4) Referee will record the finishing time by the time the team finds the last target. During the stage, referees and observers will accompany the team without interfering. Teams will find a stamp with each target and they will seal the stamp on the back of the map that they were given in the beginning. It's strictly forbidden for teams to touch, damage or replace of the targets.
  - (5) Time limit anticipated for this stage is 60 minutes.
  - (6) Scoring Table for the competition is attached (See, Scoring Table No.1).



#### b. Clean Debris Removal and Rescue from Wreckage Stage:

After completing the hurdle stage, Teams will draw the safety stripes and then pass the platform (Figure 1) which is prepared by the technical team. They will use the provided equipment to pass the platform. Following that, teams will move on to the clean debris removal work. After completing clean debris removal, teams will reach the victim (dummy). The victim will be taken to the safe area by appropriately applying the safety and competition rules.

- (1) Referees will accompany the teams in each step without interfering. All the right and wrong approaches will be recorded. The time limit anticipated for this competition is 75 minutes.
- (2) Time of completion is not a criterion in scorings in this stage. However teams failing to complete the stage within the anticipated duration will not receive the bonus points.
  - (3) Scoring Table for the competition is attached (See, Scoring Table No.2).







### CLEAN DEBRIS REMOVAL AND RESCUE FROM WRECKAGE STAGE





- ➤ Implement search and rescue activities in collapsed structures in line with INSARAG rules using calling method,
- Overcome obstacles such as concrete block, brick, wood and metal while performing search and rescue activities in collapsed structures,
- ➤ Pay attention to rules while opening holes , forming and supporting tunnels intended for life gaps during search and rescue activities in collapsed structures,
- > Work in collapsed structures without dropping rubble to the area where injured/trapped person founded,
- Implement first aid when injured/trapped person rescued from collapsed structure.

#### c. Rescue from Vehicle and First Aid Stage:

- (1) Teams will pass the hurdle stage and reach the vehicle that had an accident. The injured victim will be rescued after the first aid treatment and will be taken to a safe are. Teams will use the provided tools during the process of rescue.
- (2) The injured victim trapped in vehicle will be taken out of the car by using the equipment. The method of interference for each team will be selected by lot.
  - (3) Time limit anticipated for this stage is 30 minutes.
- (4) Time of completion is not a criterion in scorings in this stage. However, teams failing to complete the stage within the anticipated duration will not receive the bonus points.
  - (5) Scoring Table for the competition is attached (See, Scoring Table No.3).





# RESCUE FROM VEHICLE AND FIRST AID STAGE





- Take necessary safety measures in scene of accident,
- Implement first aid to trapped/injured persons,
- Rescue trapped/injured persons in vehicle after crash,
- Handing over of trapped/injured persons to medical staff by using available tools.

#### d. Recue by Using Aerial Line:

Teams will firstly surpass the climbing wall and the hurdles towards downstairs in order to reach and evacuate the injured victim. Then, they will land to the point where the victim is, by forming a line of rope. They will transfer the victim to the secured area with the help of an aerial line, after safely fixing him/her on a stretcher. After the evacuation, the team will clear up all tools used during the process of aerial rescue. The general structure and layout of the track can be found in Figure 2. Scoring Table No.4 will be used in the scorings.

- (1) This competition aims successfully evacuating the victim to a secured area from places that are hard to reach (places that need climbing skills).
  - (2) Time limit anticipated for this stage is 50 minutes.
  - (3) Scoring Table for the competition is attached (See, Scoring Table No.4).

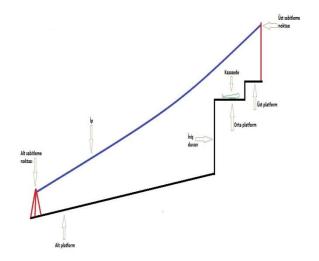
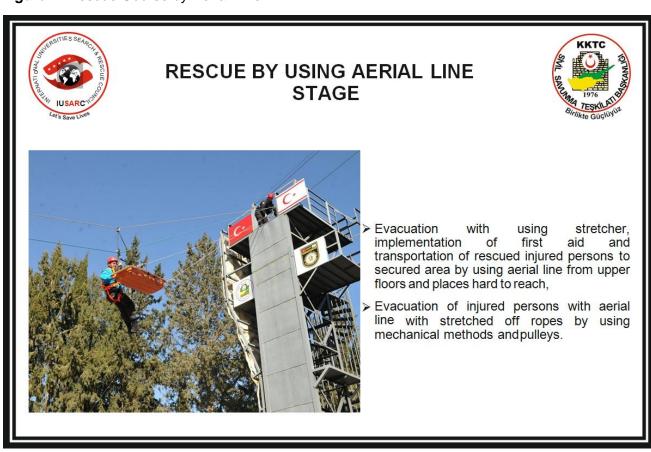




Figure 2: Rescue Course by Aerial Line



#### e. Concrete Block Dragging:

- (1) Teams will surpass the hurdle stage and drag the concrete block 3 meters forward by using the tools they are provided.
  - (2) Teams will ensure the movement of the concrete block by using a pulley system.
  - (3) The pulley system will be cleared up after the moving the concrete block.
  - (4) Time limit anticipated for this stage is 30 minutes.
  - (5) Scoring Table for the competition is attached (See, Scoring Table No.5).



# CONCRETE BLOCK DRAGGING STAGE





- Removal of concrete blocks during search and rescue activities for injured or trapped persons in collapsed structures in line with INSARAG(International Search and Rescue Advisory Group) methodology using available tools,
- Improvement of team spirit and working in coordination,
- Improvement of ability to use available tools for effacement of problems,
- ➤ Implement necessary security measures during search and rescue activities in order to determine individual and team security,
- ➤ Carry off a 2000 KILOGRAMS concrete block for 3 meters with the appropriate method.

#### 4. SAFETY PRINCIPLES AND DISQUALIFICATION RULES

Team members, that are to participate in the competition, should possess the personal equipment stated below:

**Uniform:** a long sleeve uniform, and a trouser (Seen as in Figure 3).

Helmet (EN 12492),

Safety goggles (EN166),

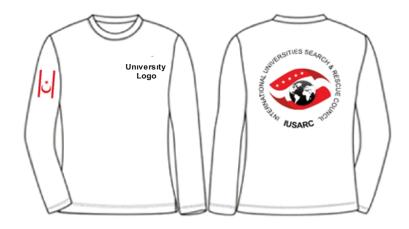
Dust mask (EN149 + A1),

Shoes (above ankles),

Gloves (EN 388),

Earmuffs and

Compass, ruler and a set of pencil (each team should have at least one set).



- (1) Contesting teams can bring their safety belts, knee-elbow pads and carbines to be used during the competitions. Technical team will provide such tools to the contesting teams who do not have supplies. Teams should wear their personal protective equipment (to be brought by themselves) during all stages of competitions.
- (2) Team leader is responsible for all the equipment used by the team members. Teams lacking to have equipment or not applying appropriate to the safety principles will be warned once by the referees. Contestants who do not apply the rules in spite of the warning will be disqualified from the competition stage. -5 penalty points will be given to the teams for each disqualified team member. Disqualified contestant will be able to participate in the following stages.
- (3) A complaint should be filed and submitted to the Board of Referees in case of any objections experienced during the competitions.
- (4) Team points will be recorded on the notice board in the competition area in the end of each day. Any complaints regarding points should be submitted to the Board of Referees next morning.
- (5) Disputes between teams can be accepted as a reason for disqualification by the camp director.
- (6) Teams that are not abiding the rules within the campsite will receive a penalty point determined by the Board of Referees.

#### 5. SCORING:

- a) Each competition stage will be scored over 100 points.
- b) Bonus points will be given in accordance with the rules determined by the Referee Evaluation Score Chart.
- c) Ranking of the teams with same scores during in a stage or competition will be determined by the each team's completion time of the stage/competition.
- d) At the end of the competitions, a ranking list of overall points (total of all 5 competitions) will be compiled. Moreover, a ranking list for each stage will be compiled as well.
- e) Referees will evaluate the teams with respect to the scoring points stated in the Evaluation Score Charts below.

#### 6. COMPETITION REFEREEING:

Teams will be evaluated by at least two referees for each competition and at the end of the competitions, the points of each team will be scored by averages the two points given by the two referees. Then, the average will be approved by the Referee Desk and will be announced. The work order and program of the competition referees will be determined by the Board of Referees.

#### 7. PRIZES:

Teams will receive prizes from different categories. These categories are:

- a. Orienteering (Target Finding),
- b. Clean Debris Removal and Rescue from Wreckage,
- c. Rescue from Vehicle and First Aid,
- d. Rescue by Using Aerial Line,
- e. Concrete Block Dragging,
- f. General Classification (1st 2nd 3rd) and
- g. Best Leader.

#### 8. TENTATIVE LIST OF COMPETING TEAMS:

GROUP NO.	NAME OF THE UNIVERSITY	COUNTRY
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		

- ✓ Team numbers of competing teams will be selected by lot and group numbers will be handwritten on this column.
- Competing teams will consist of 8 search and rescue students; six male and two female students. Transport expenses of teams coming from abroad will be covered by their own universities.
- ✓ 5 male and 1 female students will participate during the competitions. The other two students
  from each team will be substitute team members. Each student will participate in at least two
  competitions.
- ✓ An academic staff member or a representative can be assigned by the universities to be responsible for competing students if needed whose transport expenses will be covered by their own universities.
- ✓ Team leaders will submit a list of six team members (that are to participate in the following competition) to the Referee Desk.
- ✓ Trips from/to the facilities for the competitions of TRNC University teams will be organized by
  the universities.
- ✓ Transport, emergency health aid, accommodation and food expenses during the training camp and competitions will be covered by the Civil Defence Organization Office. In addition, all competing SAR Team members will be covered by health insurance.
- ✓ The points received by the teams will be updated daily and announced on the Notice Board.

# **SCORING CHARTS**

#### **SCORING CHART NO.1**

### **ORIENTEERING (TARGET FINDING) COMPETITION**

(TIME LIMIT: 60 MINUTES)

NO	SCORING CRITERIA	POINTS						
1	Is the team leader exhibiting an effective leadership?	4	3	2	1	0		
2	Has the team leader done the distribution of tasks within the team?	4	3	2	1	0		
3	Has the team leader followed up and controlled the distribution of tasks?	4	3	2	1	0		
4	Has the team leader ensured the successful completion of the course without dissolution of the team?	4	3	2	1	0		
5	Has the team completed the course in a congenial way?	4	3	2	1	0		
6	Was the team able to explore the environment with the help of the map?	4	3	2	1	0		
7	Has the team members had a strong communication?	4	3	2	1	0		
8	Does the team have the ability to use a compass?	4	3	2	1	0		
9	Does the team have the ability to use a map?	4	3	2	1	0		
	TOTAL POINTS			•				

### **ORIENTEERING (TARGET FINDING) COMPETITION - TIME EVALUATION CHART**

ORIENTEERING (TARG	SET FINDING) COMP
COURSE COMPLETION TIME (MINUTES)	POINT
00:00-30:00	64
30:01-31:00	62
31:01-32:00	60
32:01-33:00	58
33:01-34:00	56
34:01-35:00	54
35:01-36:00	52
36:01-37:00	50
37:01-38:00	48
38:01-39:00	46
39:01-40:00	44
40:01-41:00	42
41:01-42:00	40
42:01-43:00	38
43:01-44:00	36
44:01-45:00	34
45:01-46:00	32
46:01-47:00	30
47:01-48:00	28
48:01-49:00	26
49:01-50:00	24
50:01-51:00	22
51:01-52:00	20
52:01-53:00	18
53:01-54:00	16
54:01-55:00	14
55:01-56:00	12
56:01-57:00	10
57:01-58:00	8
58:01-59:00	6
59:01-60:00	4
60:01-61:00	2

SCORING POINT	
TARGET FINDING TIME PINT	
BONUS POINT	
TOTAL POINTS	

- \* Targets should be found one after another.
- \* Teams who haven't reached the time limit (61 minutes) will continue searching for the targets.
- \* Teams who managed to found all the targets will get a bonus of +5 points.
- \* Teams who couldn't find all targets will receive 1 points for each target found.
- \* Teams will stop searching targets when the time limit is reached.

## SCORING CHART NO.2 CLEAN DEBRIS REMOVAL AND RESCUE FROM WREKAGE COMPETITION

(TIME LIMIT: 75 MINUTES)

NO	SCORING CRITERIA			POINTS				
		2	1	0				
1	Has the protective equipment been worn? (Helmet, safety goggles, gloves, knee & wrist pad)							
2	Has the hurdle stage been infallibly and accurately completed?							
3	Has the team worked co-ordinately during the hurdle stage?							
4	Has the hurdle stage been completed with all the members participating?							
5	Has the team leader done a reconnaissance of the scene?							
6	Has the team leader done distribution of tasks within the team?							
7	Has the team followed the instructions of the team leader without objection?							
8	Has the team leader called out for possible victims in the scene?							
9	Has the team leader kept an eye on dangers?							
10	Has the scene been surrounded with the safety stripes?							
11	Have the stakes of the safety lines been driven in properly?							
12	Has the concrete block been marked as a shape of triangle with spray paint?							
13	Has the staff using the tool for drilling the corners of the triangle concrete been with her/his co-worker?							
14	Has the concrete been properly broken down with using a sledge hammer?							
15	Have the wires in the concrete been properly cut with a wire cutter?							
16	Have the residuals (concrete, iron) of the work been taken to a safe area?							
17	Have iron edges in the concrete that cause danger been blunted?							
18	Has the team leader controlled the area to see if there are obstacles that can harm the personnel during the process of rescuing?							
19	Has the team leader been informed that the team members came across a wooden obstacle in the wreckage?							
20	Has the rescue team marked the wooden obstacle with spray paint (a triangle shape)?							
21	Has the rescue team made three holes on the three edges of the wooden obstacle?							
22	Has the wooden barrier been cut with a reciprocating saw and the remaining pieces been carried to a safe zone?							
23	Has the team leader been informed that the team members came across an iron obstacle in the wreckage?							
24	Has the iron barrier been cut at the corners in line with the rules with a pair of iron cutters?							
25	Has the iron barrier been cut with a wire cutter and have the pieces been transferred to a safe zone?							
26	Have the remaining pieces in the wreckage been secured?							
27	Has the team leader passed through the corridor and checked the work zone?							
28	Has the team leader ensured that the material needed been brought to the work zone in a coordinated fashion?							
29	Has the team leader assigned duties to the staff members who will work neatly?							
30	Has the staff undertaking duties tied themselves up at a fixed point and then gone to the work zone?			_				

### SCORING CHART NO.2 CLEAN DEBRIS REMOVAL AND RESCUE FROM WRECKAGE COMPETITION

(TIME LIMIT: 75 MINUTES)

NO			SCOI	RING CRITERIA				POINTS		
	Has the tr	iangle on the	wreckage h	peen drawn with	a spray paint	in line with the	2	1	0	
31	rules?									
32		orders of the the concrete		gle been drilled in	n such a way tha	at they wouldn't				
33	Have the a rules?	anchors beer	n fixed on the	e holes on the o	concrete barrier	in line with the				
34	Has a tripo	od been set u	p at the work	area (in the mid	dle of the triangl	e)?				
35	Have the r	ope to be fixe	ed on anchors	and concrete m	nass been tied to	the tripod?				
36		oncrete been e concrete ba		with a suitable to	ool, in a way tha	at it wouldn't go				
37	Has the tea	Has the team using the tool for cutting concrete been with her/his co-worker?								
38	Has the cu									
39	Have the n	netal barriers	on the concr	ete barrier been	cut with shears'	?				
40	Has the mass cut been hung securely?									
41	Have the r	emaining pie	ces at the are	ea been carried t	o a safe zone?					
42	Have the r	emaining tips	that were cu	t been damped	down?					
43	While the complied?	competitor is	being taken	down the well, h	nave the safety i	measures been				
44	Has the he	alth situation	of the injured	d been assessed	1?					
45		id been appli al body condi		ured? (Neck sp	lint fixation, che	cking breathing				
46	Has the vio	ctim been tak	en out in line	with the safety r	ules?					
47	Have the of the activity		nd tools been	returned to the	start point in fu	ll at the end of				
48	Have the safety stripes and rodes been collected following the completion of the duty?									
49	Has the inj	Has the injured been delivered to the secure zone in line with the rules?								
50	Has the tea	am complete	d the duty wit	h the protective	equipment?					
	DI ETIC:	T	T	· · · · · · · · · · · · · · · · · · ·	_	TAL POINTS				
TIME	PLETION	00:00-40:00 Min.	40:01-44:00 Min.	44:01-48:00 Min.	48:01-52:00 Min.	52:01-56:00 Min.	BON	IUS P	ТИІС	
POIN	Т	5	4	3	2	1				

<sup>\*</sup> Every kilogram of debris taken out during the clean debris work will receive 0,5 penalty points (Total Points - Dirty Debris X 0,5).

<sup>\*</sup> Pieces of debris that fallen on the dummy during the clean debris work will be evaluated by the referee and added to the dirty debris weight.

## SCORING CHART NO.3 RESCUE FROM VEHICLE AND FIRST AID COMPETITION

(TIME LIMIT: 30 MINUTES)

NO		SCORING CRITERIA				POINTS					
NO							4	3	2	1	0
1	Has the prearmuffs)	rotective equi	ipment been wo	rn? (Helmet, sa	afety goggles, g	gloves,					
2	Has the h	urdle stage b	een infallibly and	d accurately co	mpleted?						
3	Has the te	am worked o	co-ordinately dur	ing the hurdle	stage?						
4	Has the te		one a reconnais:	ately done job							
5	Has the te	am followed	jection?								
6	Has the so	cene been su	ırrounded with th	ne safety stripe	s?						
7	Have the	Have the rodes of the safety stripes been fixed properly?									
8		Has the team leader assinged personnel for first aid to the victim when she/he or a reconnaissance the scene?									
9		Has the personnel assigned for first aid to the accident victim taken t precautionary actions? (Neck splint, blanket)									
10	Has the vi	ctim's medic	al condition bee	n evaluated?							
11	Is the inte	rference met	hod and choice	correct?							
12		eam leader uch dangers?	observed the p	ossible dange	rs and taken p	precautions to					
13	Has the potential them?	ersonnel usir	ng the equipmer	nt had the suffic	cient skills to ef	fectively used					
14	Has the pe	ersonnel bee	n cooperative w	hile using the e	equipment?						
15			ner than the ac			g equipments					
16	Has the no	ecessary pre	cautions been ta	aken upon the	cut places?						
17			d out of the secu		me?						
18	Have the	unused mate	rials been prope	erly put back?							
19	broken gla	ass while inte	ecautions been rvening the victi constant comm	m?							
20	Has the vi	ctim been tal	ken out of the ve	hicle in a fast	and appropriate	e way?					
21			fely taken to the								
22			moved appropr ctions of the tear		espondingly by	the team					
23	Has the te		ade sure that th	e team used tir	me effectively ir	n order to tidy					
24	Have the	final check of	materials used	in the scene be	een done appro	ppriately?					
25	Have the the time?	team leaders	successfully ins	structed their te	ams and effect	ively used					
	TOTAL POINTS										
COMI	PLETION	00:00-15:00 Min.	15:01-17:00 Min.	17:01-19:00 Min.	19:01-21:00 Min.	21:01-23:00 Min.		BON	IUS PO	TNIC	
POIN	т	5	4	3	2	1					

## SCORING CHART NO.4 RESCUE BY USING AERIAL LINE

(TIME LIMIT: 50 MINUTES)

NO	SCORING CRITERIA					POINTS						
						4	3	2	1	0		
1	Has the protecti	ve equipment	been worn?									
2	Has the team lea	ader properly	instructed the	e team?								
3	Has the team m	anaged to clin	nb without ar	ny support?								
4	Has the team co	ompleted the o	limbing in co	operation?								
5	Does the team handing?	nave control o	n landing tec	hniques during	the							
6	Has the instructi	ion been appli										
7	Following the lar all together?	nding, has the	the incident									
8	Has the place of	f the incident b										
9	Has the team le	ader done job	distribution?									
10	Has first aid bee	en applied on t										
11	Is the situation of	of the victim be										
12	Is the choice of	materials app	opriate?									
13	Has the correct	method been	used when o	pening the rop	e?							
14	Has the knots for	or stabilising ro	pes been do	ne properly?								
15	Has the spool sy appropriately?	ystem been st	retched out a	accurately and								
16	Has the prusik k	not on the ma	in line been	done properly?	)							
17	Has the spool sy from the line?	ystem been st	abilised prop	erly when bein	g removed							
18	Are the ropes tig	ght enough?										
19	Has the victim b	een placed or	the stretche	er in an approp	riate way?							
20	Is the team lead	ler observing f	or any possil	ole dangers?								
21	Has the stretche	er been carried	d appropriate									
22	Has the stretche way?	er been placed	on the line i	n a balanced a	nd accurate							
23	Is the personnel a right position?		he patient wi	ith the stretche	r standing at							
24	Has the equipme		cted properly	/?								
25	Has the team co	ompleted the o	luty wearing	the protective	equipment?							
				ТОТ	AL POINTS							
COMI TION TIME	00:00- 40:00 Min	40:01-42:00 Min.	42:01-44:00 Min.	44:01-46:00 Min.	46:01-48:00 Min.		вом	IUS PO	INT			
POIN		4	3	2	1							
		-										

## SCORING CHART NO.5 DRAGGING A CONCRETE MASS COMPETITION

(TIME LIMIT: 30 MINUTES)

					POINTS						
NO	SCORING CRITERIA						3	2	1	0	
1	Has any protective Gloves)?	ve equipment be	en used (e.g. h	nelmet, protectiv	/e glasses.						
2	Has the hurdle st										
3	While the obstac each other in a c			the team mem	bers helped						
4	Has the hurdle st	tage been compl	eted (as a tear	n) appropriately	<i>i</i> ?						
5	Has the team lea	der investigated									
6	Has the team lea	der done labour									
7		Has the team members received the instructions of the team leader appropriately and started to apply them, accordingly?									
8	Has the team lifte	ed the concrete i	n a coordinate	d fashion?							
9		While the concrete is being lifted, has the material/equipment (hammer or wood) placed under the concrete been placed securely?									
10	Has the place of	the fixation plate	s been choser	appropriately?							
11	While the stakes team abided by t		ates were bein	g put on the gro	ound, has the						
12	Does the leader fixation plate?	watch out for pos	sible dangers	during the plac	ement of the						
13	Has the rope fixe	ed on the concret	e been knotted	d appropriately?							
14	Has the rope on	the fixation plate	been knotted	appropriately?							
15	Has the spool sy	stem been set up	accurately (a	ppropriately)?							
16	Has the prusik kr			• • •							
17	Have the team m being lifted?	nembers acted in	line with the ir	nstructions while	e the spool is						
18	While the spool is for the group?	s being lifted, do	es the leader p	rovide effective	instructions						
19	While the concre secure and regul		ed, are the pip	es being transf	erred in a						
20	Has the concrete		get?								
21	Has the concrete	been securely p	ut on the grou	nd?							
22	Has the material	equipment been	collected prop	erly?							
23	Has the team lea	nder motivated ar	nd observed he	er/his team?	_						
24	Is the team in ful	l command of the	e material/equi	pment used?							
25	Has the team con	nent?									
				TO	TAL POINTS						
COMI TION TIME	00:00-20:00 Min	20:01-22:00 Min.	22:01-24:00 Min.	24:01-26:00 Min.	26:01-28:00 Min.		BONUS POINT				
POIN	T 5	4	3	2	1						



The moment of lightning the National Universities Search and Rescue Games2017 (NUSARGames2017) torch – Ciklos/GİRNE



The moment of the presentation of trophies to successful SAR teams at National Universities Search and Rescue Games2017 (NUSARGames2017) by the President of Turkish Republic of Northern Cyprus(TRNC) Mustafa AKINCI – 26 April 2017 Acapulco Hotel/GİRNE