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| **SADC AVIATION SAFETY ORGANIZATION (SASO)****REGULATIONS** |
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| **SEARCH AND RESCUE REGULATIONS** **First Edition****Month 202x** |
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# RECORD OF REVISIONS

| **Rev. No** | **Date****(DD-MM-YYYY)** | **Subject** | **Inserted By****(Department-Division)** |
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# PART IPRELIMINARY PROVISIONS

## 1]Citation and commencement

1. These Regulations may be cited as the SASO Model Civil Aviation (Regulation Code) Regulations, 202X
2. These regulations come into operation on the date on which it is published in the [State] Gazette.

## Application

1. These Regulations shall apply to a person providing [Regulation Code] services within designated air spaces and at aerodromes.

# CHAPTER 1.

# DEFINITIONS

1. When the following terms are used in the Standards and Recommended Practices for search and rescue, they have the following meanings:
2. **Alerting post.** Any facility intended to serve as an intermediary between a person reporting an emergency and a rescue coordination centre or rescue subcentre.
3. **Alert phase.** A situation wherein apprehension exists as to the safety of an aircraft and its occupants.
4. **Distress phase.** A situation wherein there is a reasonable certainty that an aircraft and its occupants are threatened by grave and imminent danger and require immediate assistance.
5. **Ditching.** The forced landing of an aircraft on water. Emergency phase. A generic term meaning, as the case may be, uncertainty phase, alert phase or distress phase.
6. **Joint rescue coordination centre (JRCC).** A rescue coordination centre responsible for both aeronautical and maritime search and rescue operations.
7. **Operator.** A person, organization or enterprise engaged in or offering to engage in an aircraft operation.
8. **Pilot-in-command.** The pilot designated by the operator, or in the case of general aviation, the owner, as being in command and charged with the safe conduct of a flight.
9. **Rescue.** An operation to retrieve persons in distress, provide for their initial medical or other needs, and deliver them to a place of safety.
10. **Rescue coordination centre (RCC).** A unit responsible for promoting efficient organization of search and rescue services and for coordinating the conduct of search and rescue operations within a search and rescue region.
11. **Rescue subcentre (RSC).** A unit subordinate to a rescue coordination centre, established to complement the latter according to particular provisions of the responsible authorities.
12. **Search.** An operation normally coordinated by a rescue coordination centre or rescue subcentre using available personnel and facilities to locate persons in distress.
13. **Search and rescue aircraft.** An aircraft provided with specialized equipment suitable for the efficient conduct of search and rescue missions.
14. **Search and rescue facility.** Any mobile resource, including designated search and rescue units, used to conduct search and rescue operations.
15. **Search and rescue service.** The performance of distress monitoring, communication, coordination and search and rescue functions, initial medical assistance or medical evacuation, through the use of public and private resources, including cooperating aircraft, vessels and other craft and installations.
16. **Search and rescue region (SRR).** An area of defined dimensions, associated with a rescue coordination centre, within which search and rescue services are provided.
17. **Search and rescue unit.** A mobile resource composed of trained personnel and provided with equipment suitable for the expeditious conduct of search and rescue operations.
18. **State of Registry. The State on whose register the aircraft is entered.**
19. **Uncertainty phase.** A situation wherein uncertainty exists as to the safety of an aircraft and its occupants.

# CHAPTER 2

#  ORGANIZATION

## Search and rescue services

1. Search and rescue service providers shall, individually or in cooperation with other search and rescue service providers, arrange for the establishment and prompt provision of search and rescue services within their territories to ensure that assistance is rendered to persons in distress. Such services shall be provided on a 24-hour basis.
2. Those portions of the high seas or areas of undetermined sovereignty for which search and rescue services will be established shall be determined on the basis of regional air navigation agreements. Search and Rescue Service Providers having accepted the responsibility to provide search and rescue services in such areas shall thereafter, individually or in cooperation with other Search and Rescue Service Providers, arrange for the services to be established and provided in accordance with the provisions of these Regulations.
3. Basic elements of search and rescue services shall include a legal framework, a responsible authority, organized available resources, communication facilities and a workforce skilled in coordination and operational functions.
4. Search and rescue services provider shall establish processes to improve service provision, including the aspects of planning, domestic and international cooperative arrangements and training.
5. In providing assistance to aircraft in distress and to survivors of aircraft accidents, search and rescue service providers shall do so regardless of the nationality or status of such persons or the circumstances in which such persons are found.
6. search and rescue service providers having accepted responsibility to provide search and rescue services shall use search and rescue units and other available facilities to assist any aircraft or its occupants that are or appear to be in a state of emergency.
7. Where separate aeronautical and maritime rescue coordination centres serve the same area, search and rescue service providers shall ensure the closest practicable coordination between the centres.

## Search and rescue regions

1. Search and rescue service providers shall delineate the search and rescue regions within which they will provide search and res- cue services. Such regions shall not overlap and neighbouring regions shall be contiguous.

## Rescue coordination Centre sand rescue sub centers

1. The designated search and rescue service provider shall establish a rescue coordination centre in each search and rescue region
2. Each rescue coordination center and, as appropriate, rescue sub centre, shall be staffed 24 hours a day by trained personnel proficient in the use of the language used for radio telephony communications.
3. RCC personnel involved in the conduct of radiotelephony communications should be proficient in the use of the English language.
4. In areas where public telecommunications facilities would not permit persons observing an aircraft in emergency to notify the rescue coordination centre concerned directly and promptly, suitable units of public or private shall be designated as alerting posts.

## Search and rescue communications

1. Each rescue coordination centre shall have means of rapid and reliable two-way communication with:
2. associated air traffic services units;
3. associated rescue subcentres;
4. where appropriate, coastal radio stations capable of alerting and communicating with surface vessels in the region;
5. the headquarters of search and rescue units in the region;
6. all maritime rescue coordination centres in the region and aeronautical, maritime or joint rescue coordination centres in adjacent regions;
7. a designated meteorological office or meteorological watch office;
8. search and rescue units;
9. alerting posts; and
10. the Cospas-Sarsat Mission Control Centre servicing the search and rescue region.
11. Each rescue subcentre shall have means of rapid and reliable two-way communication with:
12. adjacent rescue subcentres;
13. a meteorological office or meteorological watch office;
14. search and rescue units; and
15. alerting posts.

## Search and rescue units

1. the designated search and rescue agency shall designate as search and rescue units’ elements of public or private services suitably located and equipped for search and rescue operations.
2. The designated search and rescue agency shall designate as parts of the search and rescue plan of operation, elements of public or private services that do not qualify as search and rescue units but are nevertheless able to participate in search and rescue operations.

## Search and rescue equipment

The designated search and rescue agency shall ensure that

1. Search and rescue units are provided with equipment for locating promptly, and for providing adequate assistance at, the scene of an accident. Each search and rescue unit
2. Each search and rescue unit have means of rapid and reliable two-way communication with other search and rescue facilities engaged in the same operation.
3. Each search and rescue aircraft are equipped to be able to communicate on the aeronautical distress and on scene frequencies and on such other frequencies as may be prescribed.
4. Each search and rescue aircraft are equipped with a device for homing on distress frequencies.
5. Each search and rescue aircraft, when used for search and rescue over maritime areas, are equipped to be able to communicate with vessels.
6. Each search and rescue aircraft, when used for search and rescue over maritime areas carry a copy of the International Code of Signals to enable it to overcome language difficulties that may be experienced in communicating with ships.

# CHAPTER 3

# COOPERATION

## Cooperation between Search and rescue service providers

1. Designated Search and rescue service providers shall coordinate their search and rescue organizations with those of neighbouring States
2. Subject to such conditions as may be prescribed by its own authorities, a designated search and rescue agency shall permit immediate entry into its territory of search and rescue units of other States for the purpose of searching for the site of aircraft accidents and rescuing survivors of such accidents.
3. Search and Rescue agencies who wish their search and rescue units to enter the territory of another Search and rescue service providers for search and rescue purposes shall transmit a request, giving full details of the projected mission and the need for it, to the rescue coordination centre of the State concerned or to such other authority as has been designated by that State.

The authorities of Member States shall:

1. immediately acknowledge the receipt of such a request, and
2. as soon as possible, indicate the conditions, if any, under
3. which the projected mission may be undertaken.

## Cooperation with other Search and rescue service providers

1. Search and rescue service provider shall arrange for all aircraft, vessels and local services and facilities which do not form part of the search and rescue organization to cooperate fully with the latter in search and rescue and to extend any possible assistance to the survivors of aircraft accidents.
2. Search and rescue service provider shall ensure that their search and rescue services cooperate with those responsible for investigating accidents and with those responsible for the care of those who suffered from the accident.
3. Search and rescue service shall designate a search and rescue point of contact for the receipt of Cospas-Sarsat distress data.

## Dissemination of information

1. Search and rescue service provider shall publish and disseminate all information necessary for the entry of search and rescue units of other Search and rescue service provider into its territory or, alternatively, include this information in search and rescue service arrangements.

# CHAPTER 4

#  PREPARATORY MEASURES

## Preparatory information

1. Each rescue coordination centre or subcentre shall have readily available at all times up-to-date information concerning the following in respect of its search and rescue region:
2. search and rescue units, rescue subcentres and alerting posts;
3. air traffic services units;
4. means of communication that may be used in search and rescue operations;
5. addresses and telephone numbers of all operators, or their designated representatives, engaged in operations in the region; and
6. any other public and private resources including medical and transportation facilities that are likely to be useful in search and rescue.

## Plans of operation

1. Each rescue coordination centre or subcentre shall prepare detailed plans of operation for the conduct of search and rescue operations within its search and rescue region.
2. The plans of operation shall specify arrangements for the servicing and refueling, to the extent possible, of aircraft, vessels and vehicles employed in search and rescue operations, including those made available by other States.
3. The search and rescue plans of operation shall contain details regarding actions to be taken by those persons engaged in search and rescue, including:
4. the manner in which search and rescue operations are to be conducted in the search and rescue region;
5. the use of available communication systems and facilities;
6. the actions to be taken jointly with another rescue coordination centres;
7. the methods of alerting en-route aircraft and ships at sea;
8. the duties and prerogatives of persons assigned to search and rescue;
9. the possible redeployment of equipment that may be necessitated by meteorological or other conditions;
10. the methods for obtaining essential information relevant to search and rescue operations, such as weather reports and forecasts, appropriate NOTAM, etc.;
11. the methods for obtaining, from other rescue coordination centres, such assistance, including aircraft, vessels, persons or equipment, as may be needed;
12. the methods for assisting distressed aircraft being compelled to ditch to rendezvous with surface craft;
13. the methods for assisting search and rescue or other aircraft to proceed to aircraft in distress; and
14. cooperative actions to be taken in conjunction with air traffic services units and other authorities concerned to assist aircraft known or believed to be subject to unlawful interference

## Search and rescue units

1. Each search and rescue unit shall:
2. be cognizant of all parts of the plans of operation prescribed in 4.2 that are necessary for the effective conduct of its duties; and
3. keep the rescue coordination centre informed of its preparedness.
4. Search and rescue service providers shall:
5. maintain in readiness the required number of search and rescue facilities; and
6. maintain adequate supplies of rations, medical stores, signaling devices and other survival and rescue equipment.

## Training and exercises

1. To achieve and maintain maximum efficiency in search and rescue, a designated search and rescue agency shall provide for regular training of their search and rescue personnel and arrange appropriate search and rescue exercises.

# CHAPTER 5

# OPERATING PROCEDURES

## Information concerning emergencies

1. Any authority or any element of the search and rescue organization having reason to believe that an aircraft is in an emergency shall give immediately all available information to the rescue coordination centre concerned.
2. Rescue coordination centres shall, immediately upon receipt of information concerning aircraft in emergency, evaluate such information and assess the extent of the operation required.
3. When information concerning aircraft in emergency is received from other sources than air traffic services units, the rescue coordination centre shall determine to which emergency phase the situation corresponds and shall apply the procedures applicable to that phase.

## Procedures for rescue coordination centres during emergency phases

1. **Uncertainty phase**

Upon the occurrence of an uncertainty phase, the rescue coordination centre shall cooperate to the utmost with air traffic services units and other appropriate agencies and services in order that incoming reports may be speedily evaluated.

1. **Alert phase**

Upon the occurrence of an alert phase the rescue coordination centre shall immediately alert search and rescue units and initiate any necessary action

1. **Distress phase**

Upon the occurrence of a distress phase, the rescue coordination centre shall:

1. Immediately initiate action by search and rescue units in accordance with the appropriate plan of operation;
2. Ascertain the position of the aircraft, estimate the degree of uncertainty of this position, and, on the basis of this information and the circumstances, determine the extent of the area to be searched;
3. Notify the operator, where possible, and keep the operator informed of developments;
4. Notify other rescue coordination centres, the help of which seems likely to be required, or which may be concerned in the operation;
5. Notify the associated air traffic services unit, when the information on the emergency has been received from another source;
6. Request at an early stage such aircraft, vessels, coastal stations and other services not specifically included in the appropriate plan of operation and able to assist to:
7. maintain a listening watch for transmissions from the aircraft in distress, survival radio equipment or an ELT;
8. assist the aircraft in distress as far as practicable; and
9. the rescue coordination centre of any developments;
10. from the information available, draw up a detailed plan of action for the conduct of the search and/or rescue operation required and communicate such plan for the guidance of the authorities immediately directing the conduct of such an operation;
11. amend as necessary, in the light of evolving circum- stances, the detailed plan of action;
12. notify the appropriate accident investigation authorities; and
13. notify the State of Registry of the aircraft.

The order in which these actions are described shall be followed unless circumstances dictate otherwise.

1. **Initiation of search and rescue action in respect of an aircraft whose position is unknown**

In the event that an emergency phase is declared in respect of an aircraft whose position is unknown and may be in one of two or more search and rescue regions, the following shall apply:

1. When a rescue coordination centre is notified of the existence of an emergency phase and is unaware of other centres taking appropriate action, it shall assume responsibility for initiating suitable action in accordance with 5.2 and confer with neighbouring rescue coordination centres with the objective of designating one res- cue coordination centre to assume responsibility forthwith.
2. Unless otherwise decided by common agreement of the rescue coordination centres concerned, the rescue coordination centre to coordinate search and rescue action shall be the centre responsible for:
3. the region in which the aircraft last reported its position; or
4. the region to which the aircraft was proceeding when its last reported position was on the line separating two search and rescue regions; or
5. the region to which the aircraft was destined when it was not equipped with suitable two-way radio communication or not under obligation to maintain radio communication; or
6. the region in which the distress site is located as identified by the Cospas-Sarsat system.
7. After declaration of the distress phase, the rescue coordination centre with overall coordination responsibility shall inform all rescue coordination centres that may become involved in the operation of all the circum- stances of the emergency and subsequent developments. Likewise, all rescue coordination centres becoming aware of any information pertaining to the emergency shall inform the rescue coordination centre that has overall responsibility.

## Procedures where responsibility for operations extends to two or more Contracting States

1. Where the conduct of operations over the entire search and rescue region is the responsibility of more than one Contracting State, each involved State shall take action in accordance with the relevant plan of operations when so requested by the rescue coordination centre of the region.

## Procedures for authorities in the field

The authorities immediately directing the conduct of operations or any part thereof shall:

1. Give instructions to the units under their direction and inform the rescue coordination centre of such instructions; and
2. Keep the rescue coordination centre informed of developments.

## Procedures for rescue coordination centres termination and suspension of operations

1. Search and rescue operations shall continue, when practicable, until all survivors are delivered to a place of safety or until all reasonable hope of rescuing survivors has passed.
2. The responsible rescue coordination centre shall normally be responsible for determining when to discontinue search and rescue operations.
3. When a search and rescue operation has been successful or when a rescue coordination centre considers, or is informed, that an emergency no longer exists, the emergency phase shall be cancelled, the search and rescue operation shall be terminated and any authority, facility or service that has been activated or notified shall be promptly informed.
4. If a search and rescue operation become impracticable and the rescue coordination centre concludes that there might still be survivors, the centre shall temporarily suspend on-scene activities pending further developments and shall promptly inform any authority, facility or service which has been activated or notified. Relevant information subsequently received shall be evaluated and search and rescue operations resumed when justified and practicable.

## Procedures at the scene of an accident

1. When multiple facilities are engaged in search and rescue operations on-scene, the rescue coordination centre or rescue subcentre shall designate one or more units on-scene to coordinate all actions to help ensure the safety and effective- ness of air and surface operations, taking into account facility capabilities and operational requirements.
2. When a pilot-in-command observes that either another aircraft or a surface craft is in distress, the pilot shall, if possible and unless considered unreasonable or unnecessary: keep the craft in distress in sight until compelled to leave the scene or advised by the rescue coordination centre that it is no longer necessary;
3. keep the craft in distress in sight until compelled to leave the scene or advised by the rescue coordination centre that it is no longer necessary;
4. determine the position of the craft in distress;
5. as appropriate, report to the rescue coordination centre or air traffic services unit as much of the following information as possible:
6. type of craft in distress, its identification and condition;
7. its position, expressed in geographical or grid coordinates or in distance and true bearing from a distinctive landmark or from a radio navigation aid;
8. time of observation expressed in hours and minutes Coordinated Universal Time (UTC);
9. number of persons observed;
10. whether persons have been seen to abandon the craft in distress;
11. on-scene weather conditions;
12. apparent physical condition of survivors;
13. apparent best ground access route to the distress site; and
14. act as instructed by the rescue coordination centre or the air traffic services unit.
15. If the first aircraft to reach the scene of an accident is not a search and rescue aircraft, it shall take charge of on-scene activities of all other aircraft subsequently arriving until the first search and rescue aircraft reaches the scene of the accident. If, in the meantime, such aircraft is unable to establish communication with the appropriate rescue coordination centre or air traffic services unit, it shall, by mutual agreement, hand over to an aircraft capable of establishing and maintaining such communications until the arrival of the first search and rescue aircraft.
16. When it is necessary for an aircraft to convey information to survivors or surface rescue units, and two-way communication it’s not available, it shall, if practicable, drop communication equipment that would enable direct contact to be established, or convey the information by dropping a hard copy message.
17. When a ground signal has been displayed, the aircraft shall indicate whether the signal has been understood or not by the means described in 5.6.3 or, if this is not practicable, by making the appropriate visual signal.
18. When it is necessary for an aircraft to direct a surface craft to the place where an aircraft or surface craft is in distress, the aircraft shall do so by transmitting precise instructions by any means at its disposal. If no radio communication can be established, the aircraft shall make the appropriate visual signal.

## Procedures for a pilot-in-command intercepting a distress transmission

Whenever a distress transmission is intercepted by a pilot-in- command of an aircraft, the pilot shall, if feasible:

1. acknowledge the distress transmission;
2. record the position of the craft in distress if given;
3. take a bearing on the transmission;
4. inform the appropriate rescue coordination centre or air traffic services unit of the distress transmission, giving all available information; and
5. at the pilot’s discretion, while awaiting instructions, proceed to the position given in the transmission

## Search and rescue signals

1. The air-to-surface and surface-to-air visual signals in the Appendix shall, when used, have the meaning indicated therein. They shall be used only for the purpose indicated and no other signals likely to be confused with them shall be used.
2. Upon observing any of the signals in the Appendix, aircraft shall take such action as may be required by the interpretation of the signal given in that Appendix.

# APPENDIX. SEARCH AND RESCUE SIGNALS

1. Signals with surface craft
2. The following manoeuvres performed in sequence by an aircraft mean that the aircraft wishes to direct a surface craft towards an aircraft or a surface craft in distress:
3. circling the surface craft at least once;
4. crossing the projected course of the surface craft close ahead at low altitude and:
5. rocking the wings; or
6. opening and closing the throttle; or
7. changing the propeller pitch.
8. heading in the direction in which the surface craft is to be directed.

Repetition of such manoeuvres has the same meaning.

1. The following manoeuvres by an aircraft means that the assistance of the surface craft to which the signal is directed is no longer required:
2. crossing the wake of the surface craft close astern at a low altitude and:
3. rocking the wings; or
4. opening and closing the throttle; or
5. changing the propeller pitch.
6. for acknowledging receipt of signals:
7. the hoisting of the “code pennant” (vertical red and white stripes) close up (meaning understood);
8. the flashing of a succession of “T’s” by signal lamp in the Morse code;
9. the changing of heading to follow the aircraft.
10. for indicating inability to comply:
11. the hoisting of the international flag “N” (a blue and white checkered square);
12. the flashing of a succession of “N’s” in the Morse code.

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1. Ground-air visual signal code
2. Ground-air visual signal code for use by survivors



1. Ground-air visual signal code for use by rescue units



1. Symbols shall be at least 2.5 meters (8 feet) long and shall be made as conspicuous as possible.
2. Air-to-ground signals
3. The following signals by aircraft mean that the ground signals have been understood:
4. during the hours of daylight: **by rocking the aircraft’s wings**
5. during the hours of darkness: **flashing on and off twice the aircraft’s landing lights or, if not so equipped, by switching on and off twice its navigation lights**
6. Lack of the above signal indicates that the ground signal is not understood.