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In 1990, the first edition of Rules for Intercollegiate SAFECONS was published in memory of NIFA Senior Chief Judge, Hazel Jones. The publication and distribution of the rulebook was made possible by the financial support of NIFA Senior Chief Judge, Mrs. Pat Roberts.

This edition of the Rules for Intercollegiate SAFECONS is published in memory NIFA Council Members Emeriti Mrs. Pat Roberts and Mr. Ron Kelly. For many years, both individuals provided unequaled leadership and guidance for NIFA and the students involved in NIFA flight competitions.

NIFA Council
I. General Rules

A. Airplane Eligibility
1. Aircraft type certificated as Airplane-Single Engine Land only.
2. No more than four (4) place.
4. May not be equipped with an after-market STOL modification.

B. Team Eligibility
1. Each team must be associated with a regionally accredited institution of higher education.
2. Each team must be a member in good standing with the NIFA. This means the school/club dues are paid for the current competition year.
3. Only one team may represent any one campus.
4. Each team must be accompanied by a faculty advisor or other advisor recognized by their institution as the official representative for their team. Advisors are to register with the host school upon arrival.

C. Contestant Eligibility
1. Each contestant must be a currently enrolled student at the institution the team represents.
2. Each student must either be recognized by the institution as a full-time student or be enrolled in at least six (6) credit hours during the term in which competition is held, unless the student is in the semester of graduation and a reduced load will meet graduation requirements.
3. Each contestant may compete in no more than four (4) regional and four (4) national SAFECONS.
4. Each contestant shall be able to show proof of items 1, 2, and 3. If the SAFECON is held after the normal semester, the contestant is considered eligible as if the SAFECON were held during the normal semester.
5. Contestants acting as pilot-in-command in flying events must possess at least a Private Pilot certificate with appropriate category and class ratings, and a current FAA medical certificate.
6. Contestants who hold or have ever held an Airline Transport Pilot certificate or have accumulated more than 1500 total flight hours are not eligible to compete.
7. Contestants who possess a Flight Instructor Certificate may compete in a maximum of two regional and two national SAFECONS once they obtain their CFI. However, contestants may not exceed the overall limit of competing in four (4) regional and four (4) national SAFECONS.
8. Contestants who hold or have ever held a Mechanic/Technician certificate are not eligible to compete in the Preflight Event.
9. A contestant must have attended the Safety and General Contestant briefings in order to be eligible to compete in any event. In the case of special circumstances, an alternate briefing may be authorized by the Chief Judge or his/her designee.

D. Registration and Event Entry Limitations
1. Contestants must register with the host school upon arrival.
2. A contestant may compete in each event only once.
3. All team entries that are to be made by mail must be submitted prior to the deadline set by the Executive Committee or host school. All Entries must
I. **General Rules** *(continued)*

D. **Registration and Event Entry Limitations** *(continued)*

3. *(continued)*

   be made on the forms provided by the host school. Copies of those forms will be acceptable.

4. Landing events may be entered by a maximum of five (5) contestants from each team. The minimum number of aircraft used by each team will be set by the executive committee in the case of a national SAFECON and the chief judge in the case of a regional SAFECON.

5. The Message Drop Event may be entered by a maximum of five (5) dropmasters from each team. An individual may act as pilot and/or dropmaster in no more than two (2) heats.

6. The Navigation Event may be entered by a maximum of three (3) contestants from each team. One aircraft can be used in no more than two (2) heats in the Navigation Event.

7. Ground events may be entered by a maximum of five (5) contestants from each team.

8. The IFR Simulated Flight Event may be entered by a maximum of two (2) contestants from each team.

9. The schedule of events and the actual number of contestants allowed to compete in any event shall be determined by the Executive Committee in the case of a national SAFECON or the host school in the case of a regional SAFECON.

E. **Traffic Control**

1. Information pertaining to radio communications and local operating procedures and policies will be sent to each team at least two (2) weeks prior to the start of the SAFECON.

2. All pilots are expected to comply with local operating procedures and policies as soon as they arrive at the host airport. No contestant may begin any flight practice until they have received information regarding the local operating procedures and policies.

3. During the SAFECON each participant shall comply with all traffic flows, engine shutdown lines, safety areas, and other instructions given by the Staging Officer and/or Safety Officer.

F. **Practice Flights and Aircraft Check-outs**

1. The host school shall establish designated landing practice days and periods. Outlying airports shall also be designated. Practice periods shall be coordinated through the Executive Committee or host school. If no schedule has been established when a team arrives, then all practice must be conducted in Day-VFR conditions while in compliance with local operating procedures and policies.

2. All flight activity except for competition flights shall cease at the close of established practice period, or sunset if no established practice period has been set, the day of the General Contestant Briefing. After the cessation of practice, no contestant shall fly any flight for any reason without the consent of the Chief Judge.

3. No practice in a ground trainer, simulator, or other flight simulation device is authorized after the close of the established practice period or receipt of the pattern, whichever is first.
I. **General Rules** (continued)

G. **Safety Precautions**

1. After initial arrival at SAFECON by a contestant, no flight by that contestant as a pilot or a passenger is authorized after sunset without the consent of the Chief Judge. Any flight that is authorized after sunset and conducted outside the traffic pattern must be on a flight plan filed with flight service.

2. No flight activity is permitted during competition when the steady wind condition exceeds 25 kts. or the gust factor exceeds 10 kts.

3. No flight activity is permitted during competition when the crosswind component exceeds 15 knots, or 10 knots during the landing events.

4. The ceiling for the traffic pattern must meet the Federal Aviation Regulations for VFR in the airspace of conduct. Traffic pattern visibility must be at least three (3) statute miles.

5. For the Navigation Event, the ceiling must be at least 500 feet above the highest altitude required for the route to be flown and the minimum visibility must be at least five (5) statute miles.

6. For any event that involves flight into IFR conditions, the ceiling must be at least 1500 feet and the surface visibility at least 3 statute miles.

7. Formation flights (intentional flight with less than 500 feet separation) are not authorized.

8. All taxiing must be at a slow and reasonable speed.

9. No passengers may be carried during any flight during the SAFECON. All flights during the landing event must be solo. Only pilots and dropmasters may be in the airplane during the Message Drop Event. Only pilots and observers (or judges) may be in the airplane during the Navigation Event.

10. Contestants not involved in the staging process are to remain clear of the staging area.

11. In addition to the applicable FARs, the consumption or use of, or being under the influence of, alcoholic beverages, illegal drugs or substances, or illegal narcotics in any quantity by contestants is prohibited from the time of departure from the team’s home airport until the time they return. In any case, the use or consumption of alcohol by the contestants of any competing school (including the host school) is prohibited from a period beginning 24 hours prior to the General Contestant Briefing until 24 hours after the conclusion of the last activity as indicated on the official schedule of events as published or as amended by the team advisors.

12. All contestants are expected to comply with the Federal Aviation Regulations at all times. Contestants will be under special safety scrutiny during the entire time they are at the site of the SAFECON.

H. **Communications with Contestants.**

1. All portable communications devices (e.g. mobile phones, pagers, pdas, etc.) shall be turned off during any competition event.

2. During flight competition, no communications (other than Air Traffic Control or for safety of flight) is to take place between a person in the airplane and anyone on the ground or airborne outside the aircraft unless authorized by the Chief Judge.

3. During ground competition, no communications is to take place between any contestant in a ground event and anyone other than a judge.

4. During the Navigation Event there shall be no communication between those who have completed their flight and those who are waiting to start.

5. Any communication between team members for the purpose of
I. General Rules (continued)

H. Communications with Contestants (continued)

5. (continued)
coordinating team members or for logistical reason shall be on frequencies
approved for that type of use.

I. Disciplinary Action

1. Teams and contestants at national and regional SAFECONS are subject to
disciplinary action by the NIFA Council for, but not limited to, the following:
a. NIFA rule violations
b. FAR violations
c. civil law violations
d. causing physical or verbal harm to others
e. conduct unbecoming or embarrassing to others.

2. The Chief Judge shall make a ruling on any disciplinary action regarding
alleged violations of I.1.(a) or (b) by contestants or teams. The contestant
or team may appeal this ruling to the NIFA Council. A two-thirds (2/3)
majority of those Council members hearing the appeal must agree on the
outcome of the appeal.

3. A majority of the NIFA Council members present at the national
SAFECON, chaired by the NIFA Council Chair or the Executive Director
should the Council Chair not be present, shall hear any case regarding
alleged violations of I.1.(d) or (e) by a contestant or team. A two-thirds
(2/3) majority of those Council members present at the hearing must agree
on any disciplinary action.

4. Cases of violations may be initiated by a judge, NIFA executive, or NIFA
Council member. Any contestant, advisor, coach, or judge who observes a
violation should report it to the Chief Judge, Executive Director, or NIFA
Council Chair.

5. The party(s) accused of a violation shall have the opportunity to speak in
their defense. The team’s advisor shall also have the opportunity to speak
in the accused’s defense.

6. Regional SAFECON-The regional council member or chief judge (should
the regional council member not be present) shall formulate a body to act
as a “regional NIFA council” for the purpose of disciplinary action for this
section.

7. Disciplinary action may include, but is not limited to;
a. elimination of the contestant(s) or team from a particular event.
b. elimination of the contestant(s) or team from the entire SAFECON.
c. suspension from NIFA competition for a designated period.

J. Exceptions

1. The Chief Judge may make verbal exceptions to the extent necessary for
the safe conduct of events.

2. Any exception that will involve scoring or safety item shall be made in
conjunction with a majority of team advisors present.

3. The NIFA Council/"Regional NIFA Council" can make an exception to any
rule by a two-thirds (2/3) majority vote of those Council members voting.
These exceptions must be given to the affected teams in writing as soon
as practical.
I. General Rules (continued)

K. Judges
1. The Chief Judge for the National SAFECON will be approved by the NIFA Council, and other judges will be approved by the Executive Committee. Regional SAFECON judges will be approved by the Regional Organization or the NIFA Judges Committee.
2. Judges will be aided by Starters, Timers, Measurers and other necessary helpers during the SAFECON.
3. The judges will meet in closed session following each event. They will examine the safety observers’ comments and determine the first ten places for each event. Their decision will be final. Winners will be announced at the Awards Banquet. Measurements and times of individual contestants may be released by the judge.
4. No advisor from any competing school or any other person connected with a competing team shall be with the judges during judging, unless invited by the Chief Judge.
5. The Chief Judge shall submit each contestant’s score and, if possible, place standing in each event to the team advisor within 24 hours after the conclusion of the last event.

L. Scoring
1. Each event will be scored and described under the individual event. The flying events will be scored as follows:

<table>
<thead>
<tr>
<th>Place</th>
<th>Landings &amp; Navigation</th>
<th>Message Drop, IFR Events, and CRM / LOFT</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st</td>
<td>40 points</td>
<td>20 points</td>
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<tr>
<td>2nd</td>
<td>38 points</td>
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<td>1 point</td>
</tr>
</tbody>
</table>
I. General Rules (continued)

L. Scoring (continued)

The ground events will be scored as follows:

<table>
<thead>
<tr>
<th>Place</th>
<th>Points</th>
</tr>
</thead>
<tbody>
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<td>1st</td>
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2. The team winning the largest number of points shall be declared the winning team of the SAFECON. In the case of the National SAFECON, the title shall be the “National Champions.”

3. The “Top Pilot” of the SAFECON shall be the contestant who holds at least a private pilot’s license and a current medical, and who earns the largest total number of points in the following events:
   a. Power Off Landing Event
   b. Short Field Approach and Landing Event
   c. Navigation Event
   d. Ground Trainer Event
   e. Preflight Event
   f. SCAN

   However, to be designated “Top Pilot,” a contestant must place fifth or higher in one of the three following flying events (if flying events are held):
   a. Power Off Landing Event
   b. Short Field Approach and Landing Event
   c. Navigation Event

   In the event of a tie, the following events will be considered one at a time and the following order to determine the top pilot.
   a. Computer Accuracy
   b. Aircraft Recognition
   c. Message Drop

4. In case weather or time forces the closing of any event, a completed event shall consist of each registered team flying one contestant in that particular event. Should weather or time force the closing of any event part way through a round, the scores from the completed rounds ONLY shall be computed for determining team standings. Individual standings in an event, however, may be based on scores earned in an incomplete round.

5. If a tie exist the judges shall make up tie breaking problems and/or hold a run-off contest or other appropriate action

6. Announcements of the results at the awards banquet are final.
II. Flying Event Rules

A. Power Off Landing

1. Each contestant will make three landings, provided sufficient time is available. This will be determined by the Chief Judge prior to starting the event; otherwise, only two landings will be made.

2. Each airplane will make a normal take-off and climb at least 400 feet AGL before turning crosswind. The first turn should be delayed until proper spacing between airplanes can be obtained in the pattern. The second and third take-offs, if safety permits, will be from touch and go.

3. A rectangular pattern shall be flown with the downwind leg parallel to the active runway and as close as practical. Power shall be reduced to idle opposite the spot of intended landing, at an altitude not less than 800 feet AGL. From this point on, a rectangular pattern shall be flown at normal gliding speed for the airplane in use. The engine may be "cleared" in a normal manner once, while on base leg. At completion of the final turn, the contestant must be at an altitude of not less than 200 feet AGL.

4. Proper spacing in the pattern shall be maintained by each contestant. If proper spacing cannot be maintained, the overtaking airplane shall make a go-around and the contestant shall be disqualified unless the judges rule that the failure to maintain spacing was beyond the contestant’s control (such as a non-contestant aircraft improperly entering the pattern or the previous contestant flying an unusually elongated traffic pattern). No 360 degree turns or "S" turns shall be permitted on any leg of the pattern unless directed by ATC. Approved methods of attaining proper spacing are:
   a. extension of the take-off leg, or
   b. reduced speed on the downwind leg.

5. Flaps may be used in a normal manner on an airplane so equipped. They may be extended until the aircraft is 100 feet AGL on final approach and not retracted until after landing.

6. Scoring
   a. All aircraft shall be judged on the basis of a constant angle of approach, that is, one in which no rapid or radical change in attitude of the aircraft is made.
   b. A target line will be marked on the runway, a safe distance from the approach end. A white foul line will be placed 100 feet short of the target line and another white foul line 200 feet beyond the target line.
   c. All landings within the white foul lines will be scored at their actual distance in feet from the target line where both main landing gear touch down and remain firmly on the ground, except for a crosswind landing which shall be scored where the upwind wheel first touches down and remains firmly on the ground. The downwind wheel need NOT remain firmly on the ground and will NOT be scored.
   d. Touching short of the first white foul line or landing beyond the second white foul line shall result in a penalty of 400 points for that landing. The actual distance shall not be measured.
   e. If an airplane bounces short of the target line and touches down and stays at a point closer to the target line, the measurement will be made to the point of touchdown farthest from the target line.
   f. Tail wheel equipped airplanes must touchdown in a three-point attitude. Tricycle gear airplanes must touchdown in a normal attitude,
II. Flying Event Rules (continued)

A. Power Off Landing (continued)
   6. Scoring (continued)
      f. (continued)
      on the main wheels. Improper traffic pattern, approach, flare or
touchdown shall result in a penalty. The exact amount shall be
determined by the judges.

g. In the event that sufficient time is available for three landings, the best
flying technique and lowest total distance, in feet, for the best two
landings shall determine the winner.

h. Addition of power after reduction to idle opposite the landing point
(other than a clearing burst on base leg) shall result in a penalty of
200 points. Failure to add power when obviously necessary to
execute a safe landing will result in disqualification.

i. The following maneuvers may result in disqualification or a penalty of
up to 400 points:
   (1) The use of slips other than necessary for crosswind correction.
   (2) Irregular pattern, “S” turns, fishtailing, etc.
   (3) Excessively slow, fast, or long approach.
   (4) Go-around due to poor planning or spacing by the contestant.
   (5) Completion of final turn below 200 feet AGL.
   (6) Floating in excess of five (5) seconds from point at which the
airplane is no longer in a descending flight path on final
approach until touch down.
   (7) Any action deemed by the judges to be careless or reckless,
including excessive “jamming” of the airplane onto the ground or
allowing the airplane to become dangerously low while on base
leg or final approach.

j. The landing event will not be conducted when the crosswind compo-
nent exceeds 10 knots.

B. Short Field Approach and Landing
   1. Each contestant will make three landings, provided sufficient time is
available. This will be determined by the judges prior to the start of the
event, otherwise only two landings will be made.

   2. Each airplane will make a normal takeoff and climb at least 400 feet AGL
before turning crosswind. The first turn should be delayed until proper
spacing between airplanes can be obtained in the pattern. The second
and third takeoffs, if safety permits, will be from touch and go.

   3. A rectangular pattern shall be flown with the downwind leg parallel to the
active runway and as close as practical. Power must be reduced opposite
the spot of intended landing, at an altitude of not less than 800 feet AGL.
From this point on, performance will be judged on the basis of an approach
without having to reapply power to correct for obvious errors, planning a
proper approach path, and the ability to attain and hold proper approach
speeds in accordance with accepted short field technique. The contestant
shall fly a rectangular pattern with the final turn completed at an altitude of
not less than 200 feet AGL. Extremely elongated patterns and excessively
long, low final approaches shall result in disqualification.

   4. Proper spacing in the pattern shall be maintained by each contestant. If
proper spacing cannot be maintained, the overtaking airplane shall make a
II. Flying Event Rules (continued)

B. Short Field Approach and Landing (continued)

4. (continued)
go-around and the contestant shall be disqualified unless the judges rule
that failure to maintain spacing was beyond the contestant’s control (such
as non-contestant aircraft improperly entering the pattern or the previous
contestant flying an unusually elongated pattern.) No 360 degree turns or
“S” turns shall be permitted on any leg of the pattern unless directed by
ATC. Approved methods of attaining proper spacing are:
a. extension of the take-off leg, or
b. reduced speed on the downwind leg.

5. Maximum flaps will be used, consistent with existing wind conditions, on an
airplane so equipped. They may be extended until the airplane is 100 feet
AGL on final approach and not retracted until after landing.

6. Scoring
a. All aircraft shall be judged on the basis of a constant angle of
approach, that is, one in which no rapid or radical change in attitude of
the aircraft is made.

b. A target line will be marked on the runway, a safe distance from the
approach end. A white foul line will be placed 100 feet short of the
target line and another white foul line 200 feet beyond the target line.

c. All landings within the white lines will be scored at their actual distance
in feet from the target line where both main landing gear touch down
and remain firmly on the ground, except for a crosswind landing which
shall be scored where the upwind wheel first touches down and
remains firmly on the ground. The downwind wheel need NOT
remain firmly on the ground and will NOT be scored.

d. Touching short of the first white foul line or landing beyond the second
white foul line shall result in a penalty of 400 points for that landing.
The actual distance shall not be measured.

e. If an airplane bounces short of the target line and touches down and
stays at a point closer to the target line, the measurement will be
made to the point of touchdown farthest from the target line. Likewise,
if an airplane touches down beyond the target line and bounces, the
measurement shall be made to the final point of touchdown farthest
from the target line.

f. Tail wheel equipped airplanes must touch down in a three-point
attitude. Tricycle gear airplanes must touch down in a full stall
attitude. Improper traffic pattern, approach, flare, and touchdown shall
result in a penalty. The exact amount shall be determined by the
judges.

g. Use of high power settings on final approach and touchdown in
extremely tail-low attitudes shall result in disqualification. Touchdown
shall be scored where the main gear remains firmly on the ground.

h. In the event that sufficient time is available for three landings, the best
flying technique and lowest total distance, in feet, for the best two
landings shall determine the winner.

i. Addition of power after reduction opposite the landing point (other than
a clearing burst on base leg) shall result in a penalty of 200 points.
Failure to add power when obviously necessary to execute a safe
landing will result in disqualification.
II. Flying Event Rules (continued)

B. Short Field Approach and Landing (continued)

6. Scoring (continued)

j. The following maneuvers may result in disqualification or a penalty of up to 400 points:

(1) The use of slips other than necessary for crosswind correction.
(2) Irregular pattern, “S” turns, fishtailing, etc.
(3) Excessively slow, fast, or long approach.
(4) Go-around due to poor planning or spacing by the contestant.
(5) Completion of final turn below 200 feet AGL.
(6) Floating in excess of five (5) seconds from point at which the airplane is no longer in a descending flight path on final approach until touch down.
(7) Any action deemed by the judges to be careless or reckless, including excessive “jamming” of the airplane onto the ground or allowing the airplane to become dangerously low while on base leg or final approach.

k. The landing event will not be conducted when the crosswind component exceeds 10 knots.

C. Navigation

1. This event shall consist of a cross-country flight in an airplane (that meets General Rule I.A.) over a multiple leg course between 70 and 120 miles in length.

2. Each contestant must submit a flight plan before take-off, including, but not limited to, the estimated time enroute for each leg, estimated total elapsed time, and estimated fuel consumption. Planning time shall be determined by the chief judge. Only current NOAA sectional charts are approved for use by contestants in the navigation event. 1:500,000 scale charts must be used in the flight planning portion of the event.

3. A team member or safety observer must accompany the navigation contestant. These individuals must meet the following requirements:
   a. Contestants and team members must be registered members of the same team. If a team cannot meet this requirement, the Chief Judge may appoint a safety observer.
   b. Contestants and team members must meet the eligibility requirements of rule I.C.
   c. No contestant or team member may fly more than one navigation route.

4. The altitude for the flight may be assigned by the Navigation Judge. Current Federal Aviation Regulations must be observed at all times.

5. The aircraft will be flown in a clean cruise configuration.

6. The airplane must pass directly over each checkpoint in straight and level flight on a track consistent with a direct course from the previous checkpoint or point of departure. The turn to the next leg should be started, immediately after passing the checkpoint and in the direction prescribed by the navigation briefing.

7. A choice of true airspeeds will be offered by the Chief Judge prior to the event e.g. 85kts, 95kts, 100kts, 120kts. This is to insure that proper spacing is maintained along the routes. The contestant must plan the flight using his selected choice of true airspeed offered by the Chief Judge. This choice must be made prior to the navigation heat sheet being published.
II. **Flying Event Rules** *(continued)*

C. **Navigation** *(continued)*

8. Airplanes must be fueled prior to the beginning of the navigation event, preferably the night before the competition.

9. Scoring
   a. Fuel penalty points will be assigned based on the accuracy of the estimation of fuel consumption for the entire flight (start to stop engine).
   b. Penalty points will be assigned based on the difference in seconds for the following:
      1. Estimated vs actual total elapsed time from take-off to time over last checkpoint.
      2. Estimated vs actual time enroute to each check point
   c. Scoring parameters for this event may include penalty points for the following metrics:
      1. Accurate identification of symbols or geographic references placed on the ground at each checkpoint or intermediate point(s) along the route. Penalty points will be assessed for failure to identify the symbol or for recording an incorrect letter or symbol. The symbol must be accurately recorded on the 1:500,000 sectional chart that includes the plotted route that was checked in flight planning.
      2. Failure to fly within .75nm of a checkpoint on appropriate heading.
      3. Deviation from average groundspeed along each leg.
      4. Deviation from altitude along each leg.
      5. Deviation from course along each leg.
      Note: These parameters may also be used to break a tie.
   d. The lowest total score will determine the winner.

10. The following items will result in disqualification:
    a. Altitude deviation of more than 500 feet except in the interest of flight safety.
    b. Circling and heading deviations in excess of 60 degrees except as necessary to initially establish track on each leg and in the interest of flight safety.
    c. Exceeding estimated flight time on any leg by more than 5 minutes.
    d. Operating the aircraft in an unsafe or hazardous manner, including exceeding a 45 degree bank angle.
    e. Operating during cruise in other than a clean configuration. This includes slow flight or flight at minimum controllable airspeed.
    f. Tampering with GPS recording devices placed on the aircraft by judges.
    g. The use of a cell phone or texting device in the aircraft except in the case of an emergency.
    h. Plotting checkpoint on sectional more than 2nm from actual location.
    i. Failure to plan at the chosen true airspeed.
    j. Incorrect plotting of course.
II. **Flying Event Rules** (continued)

C. **Navigation** (continued)

10. (continued)

\[k.\] Incomplete chart or incomplete filling out of “Flight Planning and Computer Entry Form” within the allotted time.

\[i.\] Use of a fuel dipsticks when refueling for scoring purposes.

Note: The final decision shall be made by the Chief Judge.

11. The Judges Manual will identify and explain these and further penalties and/or disqualifications.

D. **Message Drop**

1. If possible one drop run should be made using two message drop containers. These containers must comply with the attached specifications. Two targets may be utilized; one located near the approach end of the runway and the other near the departure end. No mechanical or electronic devices may be used for dropping the containers or for calibrating the time of release.

2. Each airplane shall make a normal take-off and climb at least 400 feet before making the first turn. After the run, the same climb out procedure and pattern shall be used. After landing, each airplane must clear the runway as soon as possible. Pilots must refrain from making excessively long downwind legs, thus delaying the competition.

3. A rectangular pattern shall be flown at the recommended traffic pattern altitude for that airport. Power shall be reduced on the downwind leg and the turn onto final approach shall be completed above 300 feet AGL. At no time during the drop run shall the altitude be less than 200 feet above the level of the airport. The drop run shall be made generally into the wind at normal cruising speed. Flaps and landing gear (if applicable) must be fully retracted.

4. Proper spacing in the pattern shall be maintained by each aircraft. If proper spacing cannot be maintained, the overtaking airplane shall make a go-around. No “S” turns or 360 degree turns will be permitted on the downwind leg. Approved methods of obtaining proper spacing are:

   a. extension of the take-off leg,
   b. slow flight on the downwind leg.

5. Scoring:

   a. The drop run over each target shall be counted whether the container is dropped or not.

   b. The total distance from the drop container to the target will be measured in feet. The lowest total distance for the two containers will determine the winner.

   c. The following maneuvers will result in disqualification:

      1. Failure to drop two containers on drop run.
      2. Low or high airspeed or unusual attitude on drop run.
      3. Altitude less than 200 feet AGL during the drop run.
      4. Irregular pattern, “S” turns, slow flight, or diving during a run.
      5. Any action deemed by the judges to be careless or reckless

   d. The following items will result in penalty shown.

      1. Streamer fails to deploy or separates from the message container prior to contact with the ground. (300 points)
II. Flying Event Rules (continued)

D. Message Drop (continued)
5. Scoring (continued)
   e. The message drop container must conform to the specifications listed and/or shown on page D-25.

E. IFR Precision Flight Event
1. Each team may enter one contestant in the IFR Precision Flight Event. Contestants must be instrument rated and must meet the IFR recency of experience requirements as specified in Part 61 of the FAR’s.
2. The Chief Judge will approve conduct of this event based on prevailing conditions.
3. Contestants shall fly an IFR check flight in VMC (Visual Meteorological Conditions) under simulated instrument conditions, maintaining visual contact with the ground at all times, and be evaluated on the basis of the precision with which the instrument pattern is flown. This check flight will not exceed two hours duration and may cover any of the following segments:
   a. A ground phase, including an IFR clearance test.
   b. A flight phase, including:
      (1) An instrument departure.
      (2) A demonstration of basic, IFR maneuvers—the execution of climbs, descents, and turns; changes in airspeed and airplane configuration; recovery from unusual attitudes; and use of the clock.
      (3) A holding pattern at either a NAVAID or at an intersection.
      (4) A non-precision approach—with procedure turn; inbound/outbound tracking of a VOR radial; and descent to MDA.
      (5) A missed approach.
   Contestants may be required to demonstrate some of these maneuvers with partial panel. The event judge shall specify which radio aids and reference instruments may be used during any segment of the check flight.
4. Contestant Aircraft: Each contestant may use his/her own aircraft or one provided by the event sponsor. In either case, the aircraft must:
   a. Be a 4-place airplane so that a safety observer can ride along.
   b. Meet all FAA requirements for operation in instrument conditions.
   c. Have at least one VOR receiver.
   d. Meet any minimum performance requirements imposed by the event judge to insure air safety.
   e. Have dual controls and be configured so that the check pilot can monitor and evaluate the flight and navigation instruments.
   In no event shall a contestant be allowed to use an autopilot, a slaved ADF, a pictorial navigation indicator, an RMI, or and RNAV during the contest.
   Any questions about equipment will be resolved by the Chief Judge before the flight.
5. Each contestant shall furnish an IFR hood that effectively restricts outside visual reference for the pilot and does not unduly restrict visibility for the check pilot. The event judge shall have final authority to determine hood suitability.
II. **Flying Event Rules** *(continued)*

E. **IFR Precision Flight** *(continued)*

6. All contestants shall fly the same instrument navigation pattern. Contestants may have up to two hours to review the flight plan prior to their scheduled departure. Contestants are expected to furnish any logs, knee boards, approach plate holders, or other aids they may want to use during the check flight.

7. Each contestant will be evaluated on the basis of following specified procedures and on how accurately airspeed, altitude, heading, course, and time are maintained as appropriate for each segment of the check flight. Deviations will result in the assessment of penalty points or in disqualification. The minimum acceptable precision expected of contestants is that required to pass an instrument check ride (see the FAA Instrument Practical Test Standards).

8. Scoring: (Scoring for each phase of the contest shall be as follows)

   a. The ground phase:
      
      (1) **IFR CLEARANCE:** Up to 200 points maximum penalty based on the percentage error for incorrectly reading back an IFR clearance—i.e., 3 elements missed out of a 10 element clearance message, 30 percent error = 60 points penalty, and an additional penalty (50 points) each time the clearance is repeated at the request of the contestant.

   b. The air phase: The following deviations shall result in a 20 point penalty for each occurrence exceeding 5 seconds duration during the check flight:
      
      (1) Failure to maintain heading (when appropriate) within ±10 degrees (20 points per 10 degrees).
      
      (2) Deviations of greater than ±100 feet from assigned or published altitude (20 points per 100 feet).
      
      (3) Failure to execute turns at standard rate within a tolerance of ±5 seconds for each 90 degrees of turn.
      
      (4) Failure to level off from a climb or descent within ±100 feet of assigned altitude (20 points per 100 feet).
      
      (5) Failure to maintain specified airspeed in climb, descent, or an approach (20 points per knot).
      
      (6) Failure to begin or end legs on time (20 points per 10 seconds).

      All of the above penalty values double after passing the station outbound on approach.

      The following deviations shall result in a 50 point penalty for each occurrence exceeding 30 seconds during the check flight.

      (7) Failure to capture on track (except during approach) a prescribed radial of a VOR within ±5 degrees of a prescribed bearing.
      
      (8) Failure to make any required position reports during the check flight. This includes position reports required by FAR's as well as those required by the judge. Required reporting points will be reviewed in the briefing.
      
      (9) Failure to operate avionics equipment properly.
II. Flying Event Rules (continued)

E. IFR Precision Flight (continued)

8. Scoring (continued)
   A 100 point penalty will be assessed for the following deviations:
   (10) Any action deemed irregular by the check pilot but not necessarily so hazardous or unsafe as to be disqualifying. This would include such things as turns in an incorrect direction and flying of incorrect headings for a protracted length of time. The Judge's decision to apply this penalty will be strongly influenced by the length of time required for the contestant to discover his or her error.
   The following actions shall result in disqualification:
   (11) Significant deviation from, or failure to execute, any portion of the assigned IFR flight pattern or ATC clearance (for example, incorrect frequency or OBS selection not caught within 30 seconds).
   (12) Exceeding any clearance limit.
   (13) Operating more than 100 feet below any published MEA, MSA, or approach segment altitude as appropriate to the leg being flown.
   (14) Going below minimum descent altitude (MDA), or failing to execute a missed approach at the defined missed approach point (MAP).
   (15) Reckless, hazardous, or unsafe flying, including loss of positive airplane control or any other maneuver that causes the airplane to enter an unusual attitude.

9. The contestant accumulating the least points from the combined score of the ground and air phases of the IFR Precision Flight Event shall be declared the winner.

F. IFR Simulated Flight Event

1. The purpose of this event is to test contestants in a simulated, dynamic IFR flight environment while performing to the standard procedures required by the Aeronautical Information Manual (AIM) and Air Traffic Control (ATC).
2. This event will be conducted in an IFR configured simulator with an automatic computer program capable of accepting scoring parameters appropriate to a given flight.
3. All contestants for a meet will fly the same flight with the same scoring parameters.
4. Each contestant must hold an Instrument Rating.
5. Each flight may include any or all of the following: departure climbs, descents, and turns; VOR and NDB tracking; radar vectors; a non-precision approach; a precision approach; a missed approach; a landing; and all communications required to conduct an IFR flight.
6. Scoring guidelines:
   a. Automated scoring will be based on the accepted tolerances of the Practical Test Standard (PTS) for an instrument flight check. Penalty points will accrue based on the following (actual points will be based on the flight and equipment limitations):
      (1) 50% or less deviation - no penalty points
II. Flying Event Rules (continued)

F. IFR Simulated Flight Event (continued)
6. Scoring guidelines: (continued)
   a. (continued)
      (2) 51% to 100% deviation - minor point penalty
      (3) Greater than 100% deviation - major point penalty
   b. Significant departure from flight plan such as wrong turns, violating
      protected airspace, more than 500 ft. altitude error, descent below
      MDA or DA will incur a gross penalty.
   c. Discretionary penalties will be awarded by the event judge for items
      such as, but not limited to, the following:
      (1) Failure to make a required position report.
      (2) Failure to make a requested radio report.
      (3) Failure to identify a navigation aid prior to use.
      (4) Additional penalties based on flight scenario.
   d. Rough and abusive mishandling of the equipment will result in
      disqualification and termination of the flight.
7. Actual scoring parameters and penalties for a contest will be provided by
   the event sponsor with the team’s contestant packages.
8. The flight pattern for a contest will be given to the teams at the general
   contestant briefing.
9. Contestant recourse to equipment malfunction will be determined by the
   chief judge and the event judge.
10. A contestant may terminate a flight at any time and accept disqualification.

G. CRM / LOFT (Crew Resource Management / Line Oriented Flight
       Training)
1. The purpose of this event is to test the contestant’s problem solving ability
   in a team environment. They will be tested during a “real time” simulated
   flight.
2. All contestants must hold an instrument rating. A multi-engine rating is
   preferred.
3. Each competing school may enter one team of two pilots.
4. The event will be flown in an IFR capable simulator with two crew
   positions. Dual controls are preferred, but not required.
5. All contestants will fly the same line oriented flight training (LOFT) scenario
   during the during of the SAFECON. Differences may occur if the
   contestants alter the intended path of the LOFT through their decisions.
   All resultant paths must be identical. For example, all teams who make
   decision A will get result B.
6. Each LOFT scenario will be scripted form the crew’s first contact with the
   other crewmembers to the final landing, or other resolution point. The
   LOFT will be designed with contingencies for any deviations the
   contestants make from the proposed plan. Once started, the LOFT will be
   in “real time.” Some cruise segments may be shortened for the sake of
   time. The contestants will be notified of any such deviation both before
   the LOFT scenario starts and again while the deviation is being made.
II. Flying Event Rules (continued)

G. CRM / LOFT (Crew Resource Management / Line Oriented Flight Training) (continued)

7. The LOFT scenario will be planned with an even and realistic mix of simple problems (i.e. one navigational radio failing) and complex situations (i.e. one of three landing gear not extending). Specific simulator or aircraft knowledge will not be tested. The event is designed to test the contestant’s ability to work together to solve problems, not to diagnose complex aircraft systems problems.

8. The judge(s) will act as all outside parties (air traffic control, company maintenance, passengers or flight attendant, etc.). The contestants must address these third parties the way they would in a real aircraft. For example, they must tune in the correct radio frequency to talk to air traffic control.

9. Scoring
   a. Points will be deducted based on the severity of the error. For example, an altitude deviation will be a larger penalty than not setting the correct transponder code.
   b. The penalty points will be totaled. The absolute value of the contestant’s score will determine the ranking of the teams. The lowest score wins.
   c. Contestants may terminate a flight at any time and accept disqualification.
   d. Rough and abusive handling of the equipment will result in disqualification and termination of the flight.
   e. Actual scoring parameters and penalties for a contest will be determined by the event judge(s) with the consent of the chief judge.

10. Simulator malfunctions will be appropriately handled by the event judge(s). The event judge(s) and the chief judge will determine contestant recourse to equipment malfunction.

11. The route of flight and other pertinent information will be given to the contestants prior to the actual flight.
III. Ground Event Rules

A. Computer Accuracy
1. Each contestant will solve problems involving the use of a manually operated flight computer. (A list of approved manual flight computers can be found in the NIFA Judges Manual and on the NIFA web site.)
2. The examination shall consist of multiple choice, true-false, or fill-in type problems.
3. Only unaltered, approved manually operated flight computers will be used.
4. Scoring:
   a. Contestants may solve the problems in any numerical sequence.
   b. Answers will be equally weighted. Complex problems should be broken down into several simpler problems.
   c. Final score shall be based on the total number of correct answers.
   d. If a tie exists, the tie will be broken by the contestant with the shortest completion time.
   e. If a tie still exists the judge shall make up several tie-breaking problems and hold a run-off contest.
5. This will be a timed event.

B. Ground Trainer
1. The pattern to be flown in competition shall be distributed to all team captains on the evening prior to competition. A copy of the pattern furnished by the judge will be the only copy allowed in the trainer during competition. The contestants, at their own discretion, will be allowed to add individual markings or notations to the copy provided by the judge for use in the trainer during competition.
2. Scoring
   a. A computerized scoring system may be developed by the event sponsor, or
   b. Scoring will be based on a total of 600 points. Points will be deducted as follows:
      (1) One point for each second of error in excess of three (3) seconds per leg. If the contestant does not deviate by more than 3 seconds, no points will be deducted. Therefore, an error of 7 seconds results in a deduction of 7 points while an error of 3 seconds causes no deduction.
      (2) One point for each 10 feet of total altitude error on each leg if the contestant deviates from his/her assigned altitude by more than 30 feet. If the contestant does not deviate by more than 30 feet, no points will be deducted. Therefore, an error of 100 feet results in a deduction of 10 points while an error of 30 feet causes no deduction.
      (3) Errors in airspeed in excess of three (3) miles per hour will be scored on the basis of one point deducted for each mile per hour of total error. If the contestant does not deviate by more than 3 miles per hour, no points will be deducted. Therefore, an error of 8 miles per hour results in a deduction of 8 points while an error of 3 miles per hour causes no deduction.
      (4) Errors in heading in excess of three (3) degrees will be scored on the basis of one point deducted for each degree of total error. If
III. Ground Event Rules (continued)

B. Ground Trainer (continued)
   2. Scoring (continued)
      b. (continued)
         (4) (continued)
         the contestant does not deviate by more than 3 degrees, no
         points will be deducted. Therefore, an error of 9 degrees results
         in a deduction of 9 points while an error of 3 degrees causes no
         deduction.
         (5) Failure to turn in the proper direction will result in a 50 point
         penalty.
         (6) Poor bank control will result in a 15 point penalty.
         (7) Points will be deducted for poor coordination on the basis of 25
         points for each ball width of the ball beyond the cage.

3. Stalling or deviating from the assigned altitude by more than 500 feet will
   result in disqualification.

4. Rough handling - causing any control to hit limit stops - will result in
   disqualification.

5. In the event of a tie, the judge shall designate a pattern to be flown in a
   run-off contest.

C. Aircraft Preflight Inspection
   1. A light, single engine general aviation airplane shall be “bugged” with at
      least 30 discrepancies. These discrepancies must be of such a nature that
      it is reasonable to expect them to be detected by a competent private pilot
      during the course of a normal preflight inspection. The discrepancy list
      will be reviewed by both the preflight judge and chief judge prior to the start
      of the event.

2. If two airplanes are used, they must be identical.

3. The airplane must be hidden from view of spectators and other
   contestants.

4. Contestants from the same team must immediately follow one another in
   the contest.

5. Contestants shall be given not more than 15 minutes to perform the
   inspection.

6. Scoring:
   a. Each contestant will earn one point for each discrepancy detected
      from the discrepancy list.
   b. An additional point can be awarded for each existing discrepancy
      discovered by the contestant that is not listed on the judge’s
      discrepancy list. One point will be subtracted for each call made that
      is not an existing discrepancy. The preflight judge will, before the
      scores are officially submitted, review with the chief judge all such
      point adjustments for calls made on discrepancies not on the original
      list.
   c. Preflight technique will be scored in categories of Method and
      Thoroughness as poor, average, or excellent in the points range of 1-5, (5 being the most points in each category with a maximum of 10
      points possible). [Example: “Did not drain fuel”, “Did not check fuel
      quantity”, “Failed to follow logical inspection sequence”, etc.]
      Running, rough handling of the control surfaces, or erratic and
III. Ground Event Rules (continued)

C. Aircraft Preflight Inspection (continued)

6. Scoring: (continued)
   c. (continued)
      abnormal patterns of flow shall result in a loss of points from the total
      10 technique points available.
   d. In the event of a tie, the contestant taking the least amount of time to
      complete the inspection shall be declared the winner.
   e. Each contestant immediately after completing their individual preflight
      inspection shall have an additional two (2) minutes to express
      comments and/or concerns to the preflight judge.
   f. High score wins.

D. Aircraft Recognition

1. This contest shall consist of not less than thirty images of aircraft.
2. Each image shall be shown for approximately three seconds. An
   additional 15 seconds will be allowed for selecting the manufacturer,
   number designation, and official name on the answer sheet. Thirty
   seconds will be allowed if the answers must be hand written.
3. This contest should be held at one time. If it is held more than once, all
   contestants from a particular team must participate during the same testing
   session.
4. Scoring:
   a. One point will be awarded for each correct manufacturer, number
      designation, and official name noted. Some aircraft have no number
      designation or official name.
   b. In the event of a tie, the judge shall show additional slides until the tie
      is broken on a “sudden death” basis.
   c. Janes, All the World’s Aircraft shall be used as final authority for
      identifying aircraft.

E. SCAN (Simulated Comprehensive Aircraft Navigation)

1. Each contestant will be given identical packets which will include:
   a. A list of approximately forty (40) questions all of which are concerning
      one particular hypothetical flight from a given point of departure to one
      or more points of destination, and return to point of departure. These
      questions are multiple choice, true-false, or fill-in and are divided into
      two parts, which are:
      (1) Preflight planning, which should include questions concerning:
          FARs, weight and balance, fuel consumption, route planning,
          weather, and all information required for filing flight plans.
      (2) En route - which should include questions related to chart
          interpretation, FARs, weather, fuel consumption, air speed,
          ground speed, and other items of concern which could be
          encountered on an actual flight.
   b. Navigational charts to cover route of flight. (Note: a section, to cover
      flight, may be cut from a chart and copied to reduce the expense of
      supplying a chart to each contestant.)
   c. Information, or copies of graphic displays, should be supplied to
      provide information concerning terminal control areas, etc., which
      would be encountered on a proposed flight.
III. Ground Event Rules (continued)

E. **SCAN (Simulated Comprehensive Aircraft Navigation)** (continued)
   1. (continued)
      
      d. Necessary information about the aircraft to be used for the flight which could include:
         (1) weight and balance information
         (2) operational data of aircraft
         (3) other information from Owners Manual which would be needed.
      
      e. Data page - This should include all information a pilot would need to solve problems given in the questions such as route information, conditions of flight, airplane performance, and flight altitudes.
      
      f. Answer sheet - There should be space for: contestants name, contestants school, date, time of completion, spaces for each question’s answer with four (4) choices.

   2. Equipment which should be brought by the contestants are: non-programmable flight computer, plotter, pen, and pencil. Basic four mathematical function (addition, subtractions, multiplication, and division) non-programmable calculators will also be allowed. Electronic devices capable of storing and retrieving user inputted or commercially prepared text will not be allowed.

   3. Scoring:
      
      a. Answers should be equally weighted.
      b. Final score shall be based on the total number of correct answers.
      c. If a tie exists, the tie will be broken by the contestant with the shortest completion time.

   4. This will be a timed event.

F. **Electronic Flight Computer**

   1. Each contestant will be given identical packets which will include:
      
      a. A preflight planner
      b. Problem exercises for competition
      c. Three sheets of scratch paper.

   2. Equipment which should be brought by the contestants are:
      
      a. Pen or pencil
      b. Any computer/calculator with volatile memory consistent with FAA regulations (Advisory Circular 60-11A). ALL MEMORY STORAGE MUST BE CLEARED PRIOR TO THE START OF THE EVENT.

   3. Scoring:
      
      a. Final score will be based on the total number of correct answers.
      b. In the event of a tie, the tie will be broken based on which contestant took the shortest completion time.

   4. This is a timed event.
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MESSAGE DROP CONTAINER SPECIFICATIONS

CONTAINER BODY

* 6" X 1.75" X 1.75"

* May be constructed of any material

* Must be able to contain a 3x5 card or similar score sheet.

* Must be able to seal or close message compartment. Compartment must be able to be readily opened after being dropped. If a cork or other plug is used, it need not be aerodynamically shaped.

* All dimensions ± .125", unless noted otherwise.

* Overall weight, with streamer attached and 3x5 card and plug inserted, may not exceed 2.5 oz.

* May be finished in colors.

STREAMER

* 30" (±2") X 2" (± .5"), NOT including that part of the ribbon used to attach to the body.

* Dacron or similar material.

* Edge may be pinked, cut on bias, or Sealed to prevent fraying.

* Attachment may vary.
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NIFA Board of Senior Advisors

NIFA Foundation
Mr. Kent Backart
1650 Gamble Dr.
Escondido, CA

Frasca International, Inc.
Mr. Chuck Robards
Frasca International, Inc.
906 E. Airport Rd.
Urbana, IL 61802-7407

General Aviation Manufacturers Association
Katie Pribyl
Director of Communications
GAMA
1400 K St. N.W. Suite 801
Washington, DC 20005

2009 – 2010
NIFA Support Staff

Director of Conference
Mrs. Beth Bjerke
Univ. of North Dakota
University & Tulane
Grand Forks, ND 58202

Director of Corporate Development
Capt. Joel Lehrke
2329 Boulder Road
Chanhassen, MN 55317-7401
612-386-7184

Director of Corporate Relations
Capt. John Haacke
19396 Stonebrook Street
Weston, FL 33332
954-336-7847

Legal Counsel
Mr. Kelly Kyle
406 Orchard Park, 1st Floor
Ridgeland, MS 39157
601-956-8002
REGION I
Mr. Bert Boyce
557 FTS
9207 Airfield Dr.
USAFA, CO   80840
719-333-2245
Term Expires - 2011

REGION II
Prof. David Todd
Mt. San Antonio College
Dept. Of Aeronautics
1100 N. Grand Ave.
Walnut, CA   91789
909-594-5611
Term Expires - 2010

REGION III
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5320 Triple Crown Ct
Columbus, OH   43221
614-271-6643
Term Expires - 2012

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Aviation Science Dept.
P. O. Box 1800
Killeen, TX    76540
254-526-1241
Term Expires - 2011

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Prof. Gerald Hill
Box 67, MTSU
Murfreesboro, TN
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Virginia Beach, VA
Term Expires - 2010

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425-861-9949
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MEMBER-AT-LARGE
Mr. Josh Kendrick
1203 S Coolidge Ct
Aurora, CO  80018
720-207-9335
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