

NIFA Scoring System User's Manual

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Introduction & Overview

This User Guide will introduce the NIFA Scoring System and discuss how to use the system. Screenshots and other descriptions were accurate when published, but as the system evolves, there may be changes that do not get reflected in this User Guide. If you find any errors or mistakes, please be sure to send feedback to the proper address located in the help section at the end of this document.

The NIFA Scoring System is designed with three primary modules; Contest Scoring, Navigation Scoring, and Landing Events Scoring. These three modules are designed to be easily updated as needed and also allow for very specific role-based access for judges so that any judge only has access to the portions of the NIFA Scoring System that are needed to perform their specific judging assignments.

The Contest Scoring Module is the heart of the NIFA Scoring System and is responsible for administrative functions as well as scoring functions. The Contest Scoring Module is where SAFECON's are created (or modified as needed) as competitions in the scoring system, where users (Judges) are assigned roles in the scoring system, where teams and contestants are added to competitions, and where team advisors are able to verify the registrations of their team members. The scoring functions of the Contest Scoring Module are where individual contestant results are entered and where the ranking and compilation of individual and team scores takes place to determine the overall competition results. The Contest Scoring Module can also receive scores directly from the Navigation and Landing Events Scoring Modules.

The Navigation Scoring Module handles the administrative functions of creating navigation routes and assigning judges to specific roles within the Navigation Event. It also handles the computations for scoring the results of the Navigation Event and can export those results for download as a .csv file or directly to the Contest Scoring Module.

The Landing Events Scoring Module handles the administrative functions of assigning judges to specific roles within the landing events and the creation of the Electronic Landing Cards for use in the landing events. The Landing Events Scoring Module also handles the computations for scoring the landing events and can export those results for download as a .csv file or directly to the Contest Scoring Module.

If you have questions or problems with any aspects of the NIFA Scoring System, please see the help section at the end of this User Guide for troubleshooting and contact information to obtain assistance in resolving whatever problems you experience.

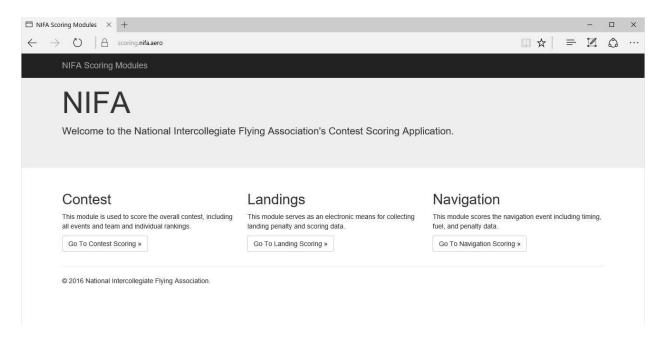
Access & Login

Access

To access any of the modules of the NIFA Scoring System, proceed to <u>https://scoring.nifa.aero</u> and choose which module you would like to access. Alternatively, if you are logged in to the NIFA website at <u>https://nifa.aero</u> and are registered as a Judge, you will see a link under the drop-down menu Judges \rightarrow Judge's Corner \rightarrow NIFA Scoring System.

Logging In

In order to log in to the NIFA Scoring System, you <u>must</u> have an account on <u>https://nifa.aero</u>. If you do not have an account, please go to <u>https://nifa.aero/judges</u> and complete the short form on the right hand side to create your account and register as a Judge. When you access the NIFA Scoring System, you will see the following screen:



Choose which module you would like to access and click on the button to access the login screen. If you are already logged in to your nifa.aero account, you will automatically be passed to the home screen for that module. If not, you will be prompted to login as seen below.

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$\leftarrow \ \rightarrow \ \mho$	A nifa.aero/wp-login.php?redirect_to=%2Foauth%2Fauthorize%2F%3Fresponse_type%3Dcode%26client_id%3D8EbQTosjNnQjY3XQ3o1u9jdDWhBD	☆	=	2	٩	
	Username or Email Password Password Remember Me Log In Register Lost your password? + Back to NIFA					

Your login credentials are the Username or Email and Password for your nifa.aero account. Enter your credentials and click on "Log In." Depending on how many times you have logged in and out of the system recently, you may need to answer a short question to ensure you are not a bot trying to access the scoring system. Once you have logged in, you will be passed to the home screen for that module which will ask you which contest you would like to work. If you do not see any options, or you do not see the contest you are looking for, this simply means you are not authorized to access that module or have no judging roles within that module.

Contest Scoring Module - Administrative Functions

This section of the NIFA Scoring System User Guide will discuss the administrative functions of the Contest Scoring Module. Scoring functions will be discussed in a separate section of this User Guide. This section will walk through the layout and navigation of the Contest Scoring Module, the creation of a contest (or competition), adding users to the contest, adding teams to the contest, adding contestants to the teams, assigning contestant ID numbers, and showing the advisors a list of registered contestants, and navigating around the Contest Scoring Module.

Home Screen, Layout, & Navigation

Once you have successfully logged in to the Contest Scoring Module, you will be directed to the home screen:

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\leftarrow \rightarrow \mho $ $ $ ext{ B}$ scor	ing. nifa.aero /contest		$\square \Rightarrow = \mathbb{Z}$ (c. c
NIFA SCORING MODULE	Demo 2015 Region II SAFECON Home Contest Info 👻		Select Contest A	ccount
Advisors	Available Contests for ehessgt@gm	ail.com		
If you're looking to see which of your contestants	Contest	Role	Actions	
have registered, this is what you're looking for:	Test Contest 2	Chief Judge	Select this contest	
Contestant List	Demo 2015 Region II SAFECON	Chief Judge	Select this contest	
	2016 Region I SAFECON	Chief Judge	Select this contest	

The home screen will list all contests that you are currently or previously assigned to. If you have a blank screen, this simply means you have not been assigned to any contests. To begin working on a contest, simply click the button to select it. Once you select a contest, you will be able to enter scores, and if you are the Chief Judge, handle some administrative functions as well. Before we walk through the creation of a contest, we will discuss the layout and navigation of the Contest Scoring Module.

Layout & Navigation

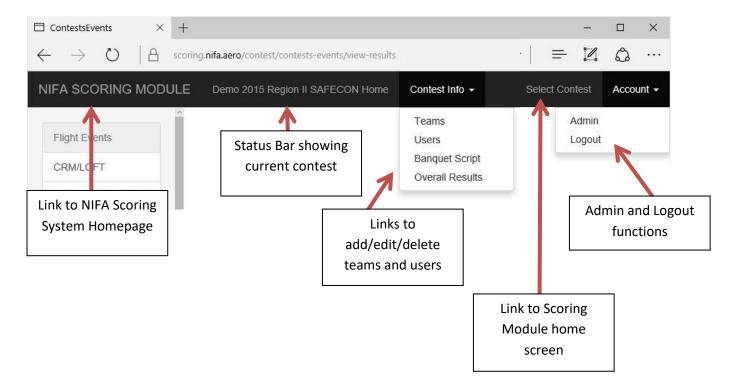
The Contest Scoring Module is laid out into three sections: Navigation Header on the top, Action Pane on the left side, and the Main Content Area in the middle of the page.

		Naviga	ation Header
			~
ntest		□ ☆	= ĭZ ⊜ …
5 Region II SAFECON Home Con	test Info 👻	S	elect Contest Account +
ide Contests for ehess	gt@gmail.com		
	Role	Actions	
ntest 2	Chief Judge	Select this contest	
015 Region II SAFECON	Main Content	Select this contest	
gion I SAFECON	Area	Select this contest	
	5 Region II SAFECON Home Con Ible Contests for ehess Itest 2 115 Region II SAFECON	5 Region II SAFECON Home Contest Info - Ible Contests for ehessgt@gmail.com Role Itest 2 Chief Judge I15 Region II SAFECON Main Content	test

The Action Pane on the left side will change depending on what you are doing. On the home page, you will see the registration verification link for Advisors. From this pane you will be able to call up the dialog to add new users, add new teams, or select events for which you wish to enter scores.

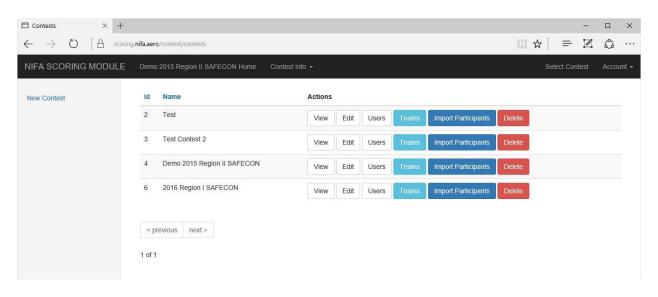
The Main Content Area is used for most of the data entry into the scoring system. From here you will be able add or edit the users, teams, and contestants. This is also where the primary scoring data will be input.

The Navigation Header has several quick links to help you easily move around the Contest Scoring Module. On the left side is a link that will allow you to return to the NIFA Scoring System homepage. Immediately to the right of that link is a status bar showing what contest you are currently working on. To the right of that status bar is the "Contest Info" drop-down menu that allows easy access to the pages where you can add, edit, or delete teams (and their contestants) and users of the current contest. Also quick links to a formatted script for the banquet (which reads from last place to first place in each event) and overall results are located here. Next to that is a link to "Select Contest." If you are registered for multiple contests, this will take you back to the Contest Scoring Module home screen where you can access the Admin functions (if authorized) to create a contest and the option to Logout of the scoring system.

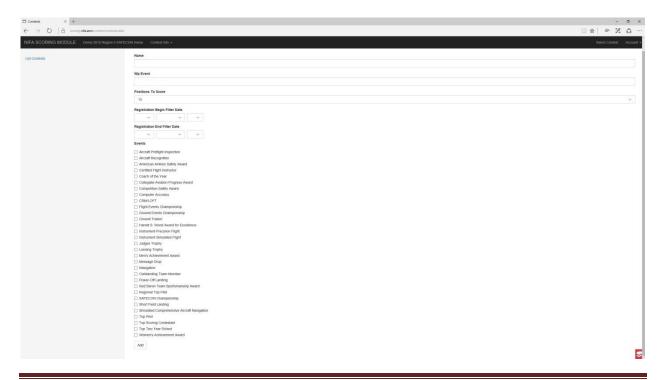


Creating a Contest

To create a contest, once you have logged in and reached the Scoring Module home page, you will need to access the Admin page. To do this, click on the "Account" drop-down menu and then click on "Admin." You will see the following screen:



This screen will show all the contests that have been created that you are authorized to view in the Main Content Area. To create your contest for your SAFECON, look to the Action Pane on the left side and click on "New Contest." You will now see this screen:



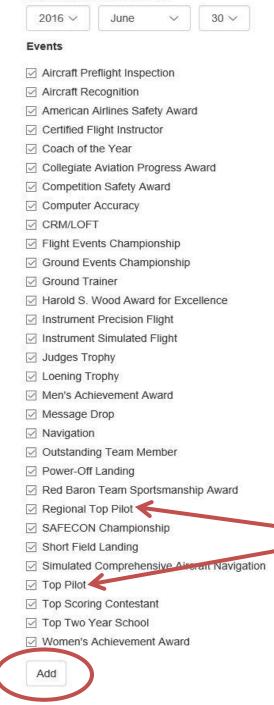
In the top half of the screen, enter the information for your competition. In this example, we will create the contest "Sample SAFECON." You can name your competition any way you like, however it is suggested to name it in the format [Year] [Scope] SAFECON, such as "2016 Region I SAFECON." Please use Roman Numerals for consistency when numbering a region. In the Wp Event field, you must enter a number, but the number does not matter. This field is not yet active. Under "Positions To Score," choose top 10 or top 20 scoring. We will choose top 20 for this example. For the registration filtering dates, enter the current NIFA competition year. The NIFA competition year runs from July 1 through June 30. In this example, we have set the 2015-16 competition year.

Wp Event 1 Positions To Score	
Positions To Score	
10 20	
Registration Begin Filter Date	
2015 ∨ July ∨ 1 ∨	

The filtering dates are important when adding contestants to a team. These dates must only reflect the current NIFA competition year so that extra students are not accidentally imported into the scoring system. Erroneous contestants can be deleted, but it will be much easier if the import is as clean as possible to start.

Once you have named your contest, selected the positions to score, and set up your registration filtering range, you now can choose what events will be competed at your contest. From the list of events, simply place a check mark next to each event you will compete and then click on the "Add" button at the bottom of the page. For our Sample SAFECON, we will select all the events.

Registration End Filter Date



NOTE

For a Regional SAFECON, select the "Top Pilot" option and NOT the "Regional Top Pilot." The Regional Top Pilot award is presented at Nationals to each of the Top Pilots from the regions.

Contests ×	÷				-	
\leftarrow \rightarrow U A \rightarrow	coring.nifa.aero/contest/contests				* = 2	\$ ·
NIFA SCORING MODU	E				Select Contest	Account
New Contest	The contest has been saved.					×
	ld Name					
	2 Test	View Edi	Users Teams	Import Participants Delete		
	3 Test Contest 2	View Edi	Users	Import Participants Delete		
	4 Demo 2015 Region II SAFECON	View Edi	Users Teams	Import Participants Delete		
	6 2016 Region I SAFECON	View Edi	Users Teams	Import Participants Delete		
	7 Sample SAFECON	View Edi	Users Teams	Import Participants Delete		
	<pre></pre>					

After clicking "Add" you will see this confirmation screen:

You will see the green confirmation bar at the top and you will now see our contest, "Sample SAFECON" in the list of contests. Our contest is now created.

Once our contest has been created we have six options:

- View: Shows basic information in the Main Content area about the contest. The Action Pane on the left when viewing will provide links to edit and delete the contest and links to come back to this event list or add a new contest. Those links will do the same thing as the Edit and Delete buttons shown above.
- Edit: This will take you back to the page to create a contest with all of the current settings for your contest selected. If you need to change top 10 or top 20 scoring, add or remove events, you would do that here and then click "Save" when finished.
- Users: This is where you add judges to your contest.
- Teams: This is where you add teams to your contest.
- Import Participants: This allows you to import student competitors to your contest. You must set up your teams before importing contestants.
- Delete: Deletes the contest and all data associated with it.

These options will be discussed in the following sections of this User Guide.

Adding Users

Now that we have successfully created our contest, the next step is to add users, judges, to the contest. Due to the modular design and access controls in place, <u>very few people actually need access to the</u> <u>Contest Scoring Module!</u> Ideally, the Contest Scoring Module should be restricted to the fewest number of people who need it. At Nationals, this would be the Chief Judge, Associate Chief Judge, Scorekeeper, Assistant Scorekeeper, and the Senior Chief Judge. At a regional competition, this list could be even shorter and could be just one or two people. Do not grant access to the Contest Scoring Module simply because a judge at your competition wants access to it. There is no need for anyone other than the above mentioned people to have access to your competition's scoring module.

From the Admin screen (accessed by the drop-down Account \rightarrow Admin) locate your contest, Sample SAFECON in our example, and click on the "Users" button. You will see this screen:

\Box Contests $\qquad \times$	+			- 🗆 ×
\leftrightarrow \rightarrow O A	scoring.nifa.aero/contest/contests/registr	ations/7		
NIFA SCORING MODU	ILE			Select Contest Account -
Add Registration	Registered Users	6 for Sample SAFECON Role	Actions	

You will notice there are no registered users for Sample SAFECON. You will need to add yourself to the contest first. In the Action Pane on the left, click the link for "Add Registration." You will see this screen:

\Box Contests \times +					-		\times
\leftarrow \rightarrow \mho \mid $rac{l}{2}$ scoring	g.nifa.aero/contest/contests/add-registration/7	Ш	☆	=	2	٩	
NIFA SCORING MODULE			Se	lect Con	test	Accou	nt -
List Registrations	Add Registration						
	Member						
	02ws6ta77@gmail.com					\sim	
	Role						
	Associate Chief Judge					~	
	Add						

The "Member" drop-down field contains a list of every email address for all of the individuals who have an account on nifa.aero. Either scroll down to find, or begin typing, the email address associated with

the nifa.aero account for the individual you wish to add. After selecting the individuals email address from the list, establish their role for the contest and then click on the "Add" button. The Chief Judge role has added capability that will allow them to add, delete, and edit users, teams, and participants for their competition. The other roles do not have this capability. Again, only grant Chief Judge access to those who need it, which is generally just the Chief Judge, Associate Chief Judge, and maybe Senior Chief Judge.

\Box Contests \times +					-		×
\leftarrow \rightarrow \bigcirc $ $ \triangle scori	ng nifa.aero/contest/contests/add-registration/7	Ш	\Rightarrow	=	1	٩	
NIFA SCORING MODULE				lect Cor	itest	Accol	int 🕶
List Registrations	Add Registration						
	Member						
	ehessgt@gmail.com					~	
	Role						
	Chief Judge					~	
	Add						

You will receive this confirmation screen and see the individual with their role listed.

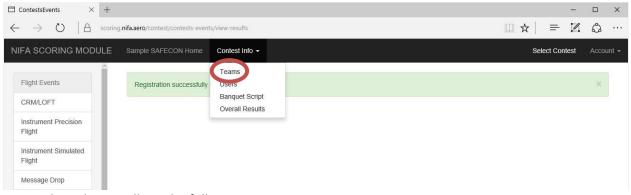
\Box Contests \times +				-		×
\leftarrow \rightarrow \circlearrowright $ $ \textcircled{a} scoring.m	ifa.aero/contest/contests/registrations/7		□ ☆ =	2	٩	
NIFA SCORING MODULE			Select Con	test	Accour	nt 🕶
Add Registration	The registration has been saved. Registered Users for Sample SAFECON				X	
	Email	Role	Actions			
\rightarrow	ehessgt@gmail.com	Chief Judge	Delete			

You can continue to add registrations as needed from this page and you can delete registrations as well. Once you have added a Chief Judge, you can delegate the adding of users to them. Once they log in and select your contest, they can add users by referencing the "Contest Info" drop-down menu in the Navigation Bar at the top.

Again, only the above listed people should be granted access to the Contest Scoring Module. The Navigation and Landings Judges <u>do not need access</u> to the Contest Scoring Module; they only need access to their respective modules. Now that we have added users to our contest, we will need to add teams.

Adding Teams

Teams can be added from two locations, the Admin page ("Account" drop-down menu \rightarrow "Admin") or by logging in, selecting your contest, and then using the "Contest Info" drop-down menu from the Navigation Bar and selecting "Teams." If the Chief Judge is adding the teams, they will only be able to access it from the Navigation Bar "Contest Info" \rightarrow "Team" drop-down menu.



Once selected, you will get the following page:

\Box Contests \times +						-		×
\leftarrow \rightarrow \circlearrowright \mid \bowtie scoring.	.nifa.aero/contest/contests/team	IS/7		☆│	₽	2	٩	•••
NIFA SCORING MODULE	Sample SAFECON Home	Contest Info 👻		Sele	ect Coni	test	Accou	int +
Add Team								
Add Team	Registered Tear	ms for Sample SAFECON						
Addiean		ns for Sample SAFECON eam Number	Two Year School	Actions	5			
Aud reall			Two Year School	Actions	5			
Aud reall			Two Year School	Actions	5			

To begin adding teams, click on the "Add Teams" link in the Action Pane on the left. You will see this page:

\Box Contests \times +				-		\times
\leftarrow \rightarrow O \mid A scoring	.nifa.aero/contest/contests/add-team/7	☆│	₽		٩	
NIFA SCORING MODULE	Sample SAFECON Home Contest Info -	Se	lect Cor	ntest	Αссоι	unt +
List Teams	Add Team					
	School					
	University of North Dakota				\sim	
	Two Year School					
C	Add					

Select the team you wish to add from the drop-down menu and, if appropriate, check the "Two Year School" box. Click the "Add" button when you are done and look for this confirmation screen:

\Box Contests \times +									-		×
\leftarrow \rightarrow \circlearrowright $ $ \textcircled{a} scoring.	nifa.aero/contest/contests/teams/7						☆│	₽	2	٩	
NIFA SCORING MODULE	Sample SAFECON Home Cor	ntest Info 👻					Sele	ect Con	test	Accol	unt 🕶
Add Team	The team has been saved.									×	
	Pagistarad Taams f	or Sampla S/	FECON								
	Registered Teams for	or Sample SA	AFECON								
	Name	Team Number	Two Year School	Actions							
	University of North Dakota	10	No	Participants	Import Participants	Edit	Dele	ete			

We have successfully added a team to our Sample SAFECON and we can see the team number assigned to that school and whether or not it is a two year school. We also have four actions we can perform:

- Participants: This button will allow us to view a list of student competitors who have been imported or added. Also, when selecting "Participants" the Action Pane on the left will allow us the options of "Add Participant," to manually add a student competitor or "List Teams," to come back to this page.
- Import Participants: This button will perform an automatic import of all students who have a valid NIFA membership during the date range established when the contest was set up. It will return a list of only those students who are associated with that school and hold a current NIFA membership.
- Edit: Allows us to edit the two year status of the school.
- Delete: Deletes the school and the school's participants from the current contest.

Now that we have added a team to our contest, we need to add participants to that team.

Adding Participants

Participants can be added in two ways, imported or manually. Normally, you will add participants by importing them in bulk. The option to manually add participants should be the exception to the rule, as there is not a check performed to see if the contestant has a current NIFA membership. It is important to note that you cannot add participants until you have added their team to the competition. To import participants, navigate to the list of registered teams ("Contest Info" drop-down \rightarrow "Teams") and then click on the "Import Participants" button next to the team you wish to add participants for.

\Box Contests \times +								-		×
\leftarrow \rightarrow O \mid A scoring	g. nifa.aero /contest/contests/teams/7					□ ☆	₽	2	٩	
NIFA SCORING MODULE	Sample SAFECON Home Co	ntest info 👻					elect Con	test	Αссоι	unt 👻
Add Team	Registered Teams	for Sample SA	AFECON							
	Name	Team Number	Two Year School	Actions						
	University of North Dakota	10	No	Participalts	Import Participants	Edit D	elete			

The website will pop up a dialog asking if you are sure you wish to continue with the import. If you wish to continue with the import, accept the dialog and the system will search nifa.aero for all students associated with that team that have a current NIFA Membership and will return the following confirmation screen showing who was imported.

\Box Teams \times +				- 🗆 X
\leftarrow \rightarrow \mho $ $ $rac{l}{2}$ scoring	ng.nifa.aero/contest/teams/import-participants/33		□ ☆ =	Z 🗘 …
NIFA SCORING MODULE	Sample SAFECON Home Contest Info +		Select Conte	est Account +
List Participants	Imported Participants for University of No	orth Dakota		
	Bauer, Justin	Added registration successfully		
	Caturia, William Caturia	Added registration successfully		
	Lin, Cannon	Added registration successfully		
	Browne, Alex	Added registration successfully		
	Nicosia, Timothy	Added registration successfully		

To import participants for other schools, click on "List Teams" in the Action Pane to return to the school list. To manually add a contestant who was not on the import, return to the school list and then click on the "Participants" button next to the school for which you wish to manually add a participant.

\Box Contests $ imes$ +	1								- 0	x c
\leftarrow \rightarrow \heartsuit $ $ \bowtie sec	oring.nifa.aero/contest/contests/teams/7					0 7	א ∣	= 1	2 6	ე
NIFA SCORING MODULI	E Sample SAFECON Home Co	ontest Info 👻					Selec	t Conte	st A	
Add Team	Registered Teams	for Sample S/	AFECON							
	Name	Team Number	Two Year School	Actions						
	University of North Dakota	10	No	Participants	nport Participants	Edit	Delet	e		

Clicking on the "Participants" button will bring up a list of all participants who are currently in the scoring system for the selected contest.

] Teams 🛛 🗙	+				- 0
\leftrightarrow \rightarrow \mho \mid $rac{1}{2}$	coring.nifa.aero/contest/teams/participants/33				$\square \Leftrightarrow = \square \Diamond \cdot$
NIFA SCORING MODUL	E Sample SAFECON Home Conte	est Info 👻			Select Contest Account
Add Participant					
List Teams	Registered Participar	nts for University	of North Dakota	l	
	Name	Role	Team Number	Participant Number	Actions
	Bauer, Justin	contestant	10	10	ED
	Browne, Alex	contestant	10	13	ED
	Caturia, William Caturia	contestant	10	11	
					E
	Lin, Cannon	contestant	10	12	E D

On the left side in the Action Pane you will see the option to "Add Participant" as well as a link to return to the school list. Click on "Add Participant" to manually add a participant.

\Box Teams \times +					-		×
\leftarrow \rightarrow \circlearrowright $ $ \triangle scoring	g.nifa.aero/contest/teams/add-participant/33	Ш	☆	=	2	٩	•••
NIFA SCORING MODULE	Sample SAFECON Home Contest Info -		Se	elect Co	ntest		
List Participants	Add Participant to University of North Dakota First Name Charles Last Name Yeager Role Contestant Add						

Type in the requested information and then click on the "Add" button to add the contestant to that team. Under the "Role" drop-down menu there are three choices:

- Advisor: Select this option <u>only</u> if the individual is the registered advisor for the team.
- Coach: Select this if the individual is a Coach.
- Contestant: Select this if the individual will be competing. It is possible for an individual to be all three of these. If this is the case, select the contestant option to ensure they are available for scoring.

You will receive the green confirmation bar and see your contestant added to the list when they have been successfully added to the participant list for that team.

 	- 🗆
Name Role Team Number Participant Number Bauer, Justin contestant 10 10 Browne, Alex contestant 10 13 Caturia, William Caturia contestant 10 12 Lin, Cannon contestant 10 12	
Name Role Team Number Bauer, Justin contestant 10 10 Browne, Alex contestant 10 13 Caturia, William Caturia contestant 10 11 Lin, Cannon contestant 10 12	Select Contest Account
NameRoleTeam NumberParticipant NumberBauer, Justincontestant1010Browne, Alexcontestant1013Caturia, William Caturiacontestant1011Lin, Cannoncontestant1012	×
Browne, Alexcontestant1013Caturia, William Caturiacontestant1011Lin, Cannoncontestant1012	Actions
Caturia, William Caturia contestant 10 11 Lin, Cannon contestant 10 12	ED
Lin, Cannon contestant 10 12	E. D
	ED
Nicosia, Timothy contestant 10 14	ED
	ED
Yeager, Charles contestant 10 15	ED

it is important to note that adding a contestant manually <u>does not</u> check to see if they have a current NIFA Student Membership.

While looking at the list of registered participants for a team, we have two options in the Main Content Area that we can perform for each participant, "E" for Edit and "D" for Delete.

- Edit: Not currently active
- Delete: Allows us to delete the contestant. Since the import function calls up all students with a current NIFA Student Membership associated with that team, it is very possible that it will return more participants than are actually competing at the SAFECON. While it doesn't affect the scoring system to have extra competitors who are not present, we should delete any participants who are not actually in attendance to maintain accurate attendance records for NIFA. This can be verified by each schools advisor.

You have now successfully added participants for the contest to this team. This process will have to be repeated for each team in the contest. It is recommended to start this process early and periodically run a new import on each team to continue to add students as they register their NIFA Student Memberships. Each import will add to the current list of participants and will not delete or modify and currently registered participants.

Contestant ID Numbers

The Scoring Module will automatically assign contestant ID numbers to each participant who is added either through an automated import or added manually. The ID number can be seen for each participant by navigating to the Teams page and clicking on Participants to view the participant list for each team. The ID number is four digits where the first two digits are the school's team number and the last two digits are the participant's number assigned by the system. In the above graphic, the contestant ID number for Charles Yeager would be 1015. As previously mentioned, if you were to Import Participants multiple times for a team the system will only add to the existing list of participants and contestant ID numbers, it <u>will not</u> change any data that has already been entered into the system.

Advisor Contestant List

This list will be created after you have added participants to a team. When the registered advisor logs in to the system, they will be able to view a list of participants from their team who have successfully been registered in the NIFA Scoring System for the current contest. Advisors should be encouraged to periodically review this list to make sure their students have successfully purchased their NIFA Student Memberships for the current contest. Also, since this list is generated and updated <u>only</u> when participants have been imported or manually added, it is recommended to remind Advisors not to contact the judging staff every day to ask if a student has registered. It would be recommended that the Chief Judge publish a schedule for when the contestant lists will be updated so Advisors can check back periodically based on that schedule.

Contest Scoring Module – Scoring

Reserved for future use.

Due to time constraints, I am unable to complete this section at this time. It is here simply as a place holder. The scoring functions are fairly self-explanatory. Please log in and use the "Sample SAFECON" contest and play around with entering scores. One important note on importing scores, the CSV file MUST contain 5 columns as asked for.

I will try and get this section completed in the next couple of weeks.

Any questions, please feel free to call me.

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Landing Events Scoring Module

This section of the NIFA Scoring System User's Manual will discuss how to create the Power Off and Short Field Landing Events, how to link them to the Contest Scoring Module, and how to assign users and permissions to the landing events. We will continue to use our "Sample SAFECON" contest for this example.

Creating the Landing Events

To create the Landing Events, access the NIFA Scoring System and select the Landings Scoring Module. Please see the "Access & Login" section of this manual for instructions on accessing the NIFA Scoring System.

\leftarrow \rightarrow \bigcirc $ $ \bigcirc scoring.nifa.aero			
NIFA Scoring Modules			
NIFA Welcome to the National Intercollegiate	Flying Association's Contest Scoring Appli	ication.	
Contest This module is used to score the overall contest, including all events and team and individual rankings. Go To Contest Scoring »	Landings This module serves as an electronic means for collecting anding penalty and scoring seta Go To Landing Scoring *	Navigation This module scores the navigation event including timing, fuel, and penalty data. Go To Navigation Scoring »	
© 2016 National Intercollegiate Flying Association.			

Once you have successfully logged in, you will reach the Landings Scoring Module home screen:

NIFA Landing Cards	Home Admin -		Logout
Which contest would	you like to work?		
Select a Contest/Role:	Choose an Option	~	
Submit			

Choose the contest you would like to work on from the drop down menu.

As you click on the "Select a Contest/Role" drop-down, you will not see our "Sample SAFECON" contest displayed. This is because we have not yet created the Landing Events in our Sample SAFECON.

NIFA Landing Cards	Home Admin +	Notice no Sample
Which contest would	I you like to work?	SAFECON in the drop-
Select a Contest/Role:	Choose an Option Region 2 SAFECON 2015 **TEST**	down list.
Submit	Region 6 SAFECON 2014 **TEST** National SAFECON 2015 2016 Pre-National Testing National SAFECON 2016	

In order to create our Landing Events for our Sample SAFECON, click on "Admin" and then click on "Contests" from the drop-down menu that appears.

\leftarrow \rightarrow \circlearrowright $ $ \triangle nifa.aero//ldg-score/registration	ns/select	
NIFA Landing Cards	Home Admin -	Logout
Which contest would	I you like	
Select a Contest/Role:	Choose an Option V	
Submit		

You will now see a screen similar to this one. You may have no contests displayed, or you may see a short list of contests. Your exact view will be determined by how many contests you have been assigned to in the past. Regardless, you will need to click on the "New Contest" button near the upper right corner to create the Landing Events for Sample SAFECON.

Contests		New Contest
Name	Actions	
Region 2 SAFECON 2015 **TEST**	Users Events Edit Delete	
Region 6 SAFECON 2014 **TEST**	Users Events Edit Delete	
National SAFECON 2015	Users Events Edit Delete	
2016 Pre-National Testing	Users Events Edit Delete	
National SAFECON 2016	Users Events Edit Delete	

Clicking on "New Contest" will bring up the following screen:

NIFA Landing Cards	Home Admin -		Logout
New Contest			
Name			
Main Scoring Module Contest	SAFECON 2015	~	
Submit			

From this screen, you will need to name the Landing Events contest and also link it to the proper Main Scoring Module. For our example, we will name it "Sample SAFECON Landings" and we will link it to the Sample SAFECON Main Scoring Module from the drop-down menu and then click on "Submit." Suggested naming convention would be to simply title it with the year and scope (Regional or National) of your SAFECON.

New Contest		
Name	Sample SAFECON Landings	
Main Scoring Module	SAFECON 2015	
Submit	SAFECON 2014 Region 9 SAFECON 2014 Region 6 SAFECON 2014 Region 2 SAFECON 2015	
	SAFECON 2016 Region 3 SAFECON 2014	

Once you have submitted your information, you will be returned to the list of all contests you have been assigned to in the past and you will see a green confirmation bar at the top stating that your contest was saved, and your contest will now appear in the list.

NIFA Landing Cards Home Admin -		Logout
The contest has been saved.		×
Contests		New Contest
Name	Actions	
Region 2 SAFECON 2015 **TEST**	Users Events Edit Delete	
Region 6 SAFECON 2014 **TEST**	Users Events Edit Delete	
National SAFECON 2015	Users Events Edit Delete	
2016 Pre-National Testing	Users Events Edit Delete	
National SAFECON 2016	Licers Fvents Edit Delete	
Sample SAFECON Landings	Users Events Edit Delete	

Now that you have created your Landing Events, you will need to define what events are being competed and connect them to data sources for the electronic landing cards. To do this, click on the "Events" button for your Sample SAFECON Landings. This will take you to this screen:

Id	Contest	Event	Main Contest Event	Wp Data Form	Actions
Evei	nts for Sampl	e SAFECON	Landings		Add Event
NIF	A Landing Cards	Home Admin	•		Logout
nifa.a	ero/ldg-score/contests-	events/index/10			□ ☆

No events are shown for the Sample SAFECON Landings module. To add an event, click on the "Add Event" button near the top right corner of this screen.

You will now see this screen to begin creating the Power Off and Short Field Landing Events. Should NIFA add more or different landing events in the future, you would create them here as well. For the first drop down menu, you have the choices of Event 1 or 2. Should NIFA add more landing events in the future, you would see more than two choices here. This example will add the Power Off Landing Event. The steps to add the Short Field Landing Event are nearly identical. The small text boxes on the screen shots will point out the differences. For now, we will add the Power Off Landing Event first.

nifa.aero/ldg-score/contests-e	vents/add/10		□ ☆
NIFA Landing Cards	Home Admin 🕶		Logout
Add Event to Sample	e SAFECON Landings		
Event	1		Select 2 from the drop-
Scoring Module Contest Event	Choose form from list	~	down menu for the Short Field Landing Event.
Information Form	Choose form from list	~	
Submit			

To add the Power Off Landing Event, make sure the Event drop-down menu is selected to "1." Next, on the Scoring Module Contest Event drop-down, scroll down and select the appropriate event from the list. In this case, since we are working on the fictitious "Sample SAFECON" we would choose the "Sample SAFECON – Power-Off Landing" selection.

NIFA Landing Cards	Home Admin -	Logout
Add Event to Sample	e SAFECON Landings	
Event	1	
Scoring Module Contest	Choose form from list	
Event	Sample SAFECON - Aircraft Preflight Inspection Sample SAFECON - Aircraft Recognition Sample SAFECON - American Airlines Safety Award	
Information Form	Sample SAFECON - Certified Flight Instructor Sample SAFECON - Coach of the Year Award	
Submit	Sample SAFECON - Collegiate Aviation Progress Award	
Submit	Sample SAFECON - Competition Safety Award Sample SAFECON - Computer Accuracy	
	Sample SAFECON - CRM/LOFT Event	
	Sample SAFECON - Flight Events Championship Trophy	
	Sample SAFECON - Ground Events Championship Trophy Sample SAFECON - Ground Trainer	
	Sample SAFECON - Harold S Wood Award for Excellence	Choose the Short Field Landings
	Sample SAFECON - Instrument Flight Rules	Choose the short held Landings
	Sample SAFECON - Judges Championship Trophy	scoring module when setting up the
	Sample SAFECON - Loening Trophy Sample SAFECON - Men's Acheivement Award	scoring module when setting up the
	Sample SAFECON - Mens Achevement Award	Short Field Landings.
	Sample SAFECON - Outstanding Team Merror, Award	Short Held Landings.
	Sample SAFECON - Power-Off Landing	
	Sample SAFECON - Red Baron Team Sportsmanship Award	
	Sample SAFECON - Regional Top Pilot Award Sample SAFECON - SAFECON Championship Trophy	
	Sample SAFECON - SAFECON Championship House	
	Sample SAFECON - Simulated Comprehensive Aircraft Navigation	
	Sample SAFECON - Top Pilot Award	
	Sample SAFECON - Top Scoring Contestant Sample SAFECON - Top Two Year School	

The next step in setting up the Power Off Landing Event is to tie the scoring system to the correct information form so that information about the type, color, and tail number of aircraft in the landing events can be automatically propagated to the electronic landing cards on the day of the Power Off Landing Event. To do this, under the Information Form drop-down menu, select the proper choice for the Power Off Landing Event. You will see many different choices listed here, these are all the various data collection forms that NIFA uses. Simply select the "Power Off Landing Aircraft Information" option from the menu. Once you have selected the proper information form, click on the "Submit" buttion.

→ ひ 🛛 hifa.aero/ld	g-score/contests-events/add/9	
NIFA Landing Cards	Home Admin -	Logout
Add Event to Sampl	e SAFECON Landings	
Event	1	
Scoring Module Contest Event	Sample SAFECON - Power-Off Landing	~
Submit	Choose form from list. Update School Contact Info Regional Competition Host School Application Judge History Update Rule Change Commentary SAFECON 2016 Judge Availability & Preferences Navigation Aircraft Information Power Of Landing Aircraft Information Region IV Vote : Brian Hart test Bylaw Change Commentary Landing Info ***TEST DATA COLLECTION*** Navigation Event Feedback and Suggestions Rules Test Council Elections Rule Change Proposals for 2015-2016 NIFA Council Representative Application NIFA Expense Reimbursement Request Volunteer as a NIFA Judge Achievement Awards Application Coach of the Year Volunteer at SAFECON 2016 New Judge/Member Registration Test Nav Flanning 2016 Rules Quiz Test Form Ground Trainer Scoring IFR Simulated Flight Scoring Preflight Scoring	Scroll down and choose Short Field Landing Aircraft Information when setting up the Short Field event.

C) A nifa.aero/ldg-score/co	ntests-events/index/9							☆│	=	1
NI	FA Landing Cards Home	Admin 👻								Logo	out
Th	e contests event has been saved.										×
110											
	ents for Sample SAF	ECON Landings								Add	Event
ĪVe		ECON Landings	Main Contest Event	Wp Data Form	Actions					Add	Event
	ents for Sample SAF			Wp Data Form	Actions	dit	Export	Results	Dele		Event

After you have set up both events, you will see the following confirmation screen:

It is not critical that you know what Main Contest Event or Wp Data Form number is correct, these numbers are simply displayed for reference and may come in handy if troubleshooting needs to be done. From here you can also Edit the event, Export the results, view Detailed Results, or delete the event in its entirety. The final step in setting up the landing events is defining how many heats of landings the electronic cards should be able to create. A suggestion is to set the maximum number of heats to 5 more than your heat sheet says you will need. This will give you flexibility in the event of mechanical or other problems where students may need to fly later or re-fly their landing heats. To set up the maximum number of heats, simply click on the "Heats" button and enter the maximum number of anticipated heats for that landing event. Initially you will see a blank heats screen. Click on "Add Heat" near the top right corner.

→ O A nifa.aero//ldg-score/heats/index/13		
NIFA Landing Cards Home Admin -		Logout
Heats		Add Heat
Heat Number	Actions	

In this example, we are going to add 25 heats. Type in the number of heats you want and then click on "Submit."

ightarrow $ ightarrow$ nifa.aero/ldg	-score/heats/add/13			٩
NIFA Landing Cards	Home Admin +		Logout	
Add Heats				
Number of Heats to Add	25	×		
Submit				

You will see the following confirmation screen.

NIFA Landing Cards Home Admin -	Logou
The heats have been added.	
	Add H
Heats	
Heat Number	Actions
1	Delete
2	Delete
3	Delete
4	Delete
5	Delete
6	Delete
7	Delete
8	Delete
9	Delete
10	Delete
11	Delete
12	Delete
13	Delete
14	Delete
15	Delete
16	Delete
17	Delete
18	Delete
19	Delete
20	Delete

You will need to do this for both the Power Off and the Short Field Landing Events. To return to the screen to enter heats for the second landing event, click on "Admin" at the top, then "Contests." When the contest list loads, select the "Events" button next to your contest and you will be taken to the screen listing the Events for your SAFECON Landings. Click on the "Heats" button for the second landing event and enter the maximum number of heats and submit. You have now successfully created your landing events.

Assigning Users to the Landing Events

This section will show you how to add Users, and assign authorized cards to those users, to the landing events. Since you are setting up the scoring system, Users are your Judges for the landing events. Users can have permission to view just one card or can be assigned multiple cards if needed. This section will show you how to do both.

To add a User to the Landing Events, log in to the Landing Events Scoring Module. Once logged in and presented with the screen asking to choose your contest/role, click on the "Admin" button at the top and then click on "Contests" from the drop-down menu that appears.

\leftarrow \rightarrow \circlearrowright $ $ \triangle nifa.aero/ldg-score/registration	ions/select	
NIFA Landing Cards	Home Admin -	Logout
Which contest woul	Id you live to the second	
Select a Contest/Role:	Choose an Option V	
Submit		

You will now be taken to this screen:

nifa.aero/ldg-score/contests	□ ☆
NIFA Landing Cards Home Admin +	Logout
Contests	New Contest
Name Actions	
Region 2 SAFECON 2015 **TEST** Users Events I	Edit Delete
Region 6 SAFECON 2014 **TEST** Users Events	Edit Delete
National SAFECON 2015 Users Events	dit Delete
2016 Pre-National Testing Users Events	Edit Delete
National SAFECON 2016 Users Events I	dit Delete
Sample SAFECON Landings	Edit Delete

Click on the "Users" button next to your contest. You will now be at the screen where you can assign Users and permissions to those Users for the landing events at your contest.

Here is the screen where you can add Users for the landing events. Click on "Add User" near the upper right corner to add a user.



When you click on "Add User" you will see the page to add a User and assign a role, or roles, to that User. You must select the User from the drop down list at the top. You will need to know the email address that person has used to set up their account with nifa.aero and the NIFA Scoring System. You can then select what cards the User is authorized to access. It is highly recommended to only allow, for example, the F Card Judge to have access to the F Card. This will help maintain security of the scores and prevent any accidental changing of scores that were not the responsibility of that Judge. You can also add a User and designate them as "Inactive" simply by checking the box at the top. This can be useful if you have a judge you want to use on a card, but they have not yet firmed up their availability. You can mark them as "Inactive" and then simply come in and change their authorizations later on. Once you have set the authorized cards for that User, click on the "Submit" button in the lower left corner.

🕐 📙 nifa.aero/ldg	-score/registrations/add/9		
NIFA Landing Cards	Home Admin 🗸		Logout
dd Registration to \$	Sample SAFECON Landings		
User	ehessgt@gmail.com	~	
Authorized Cards	Power Off Landings A B C D E F G Start Result Upload Short-Field Landings A B C D E F G Start		

You can also assign multiple authorized cards to a User by holding down the <CTRL> key while clicking on the cards they are authorized for. This is most useful when assigning card judges since the F Card Judge will typically be the F Card Judge for both events, therefore requiring 2 authorized cards. You can also authorize all the cards for a particular judge by clicking on the top choice, the A Card for Power Off Landings, and then holding down the <SHIFT> key while clicking on the last choice, the Upload Card for Short-Field Landings. This is useful for the Chief Judge and for the lead Event Judge as well. They typically have a need for access to all cards.

NIFA Landing Cards Home Admin + Admin + Add Registration to Sample SAFECON Landings User ehessgt@gmail.com Inactive	Logout
User ehessgt@gmail.com V	
	Multiple authorized
Authorized Cards Power Off Landings A B C D E F F G G Start Result Upload Short-Field Landings A B C D E F F G G Start E F F F G G G G Start E F F F G G G G G G G G G G G G G G G G	cards for a card judge.
nifa.aero/ldg-score/registrations/edit/44	Log
dit Registration for Sample SAFECON Landings	
User ehessgt@gmail.com	
Authorized Cards Power Off Landings A B C D E F G G Start Result Upload Short-Field Landings A B C D E F G G G	All cards authorized for Head Event Judge and Chief Judge.

After you submit the authorized cards for a User, you will be returned to the list of Users for the Landing Events with the option to add more, delete, or edit a user's role.

nifa.aero/ldg-score/registrations/	/index/10				□ ☆
NIFA Landing Cards	Home Admin +				Logout
The registration has been save	ed.				×
Registrations for Sa	ample SAFECON	Landings			Add User
Registrations for Sa	ample SAFECON	Landings Created	Modified	Actions	Add User

Exporting Results to the Main Scoring Module

Once the landing competition is over, the results from the competition need to be sent to the Main Scoring Module. To do this, login to the Landing Events Scoring Module, click on "Admin" at the top and then click on "Contests" from the drop-down menu. You will once again see the list of contests you have been authorized for.

NIFA Landing Cards Home Admin -	Logout
Contests	New Contest
Name Actions	
Region 2 SAFECON 2015 **TEST** Users Events	Edit Delete
Region 6 SAFECON 2014 **TEST** Users Events	Edit Delete
National SAFECON 2015 Users Events	Edit Delete
2016 Pre-National Testing Users Events	Edit Delete
National SAFECON 2016 Users Events	Edit Delete
Sample SAFECON Landings Us is Events	dit Delete

< previous next >

Click on "Events" for the appropriate contest.

You will now be at this screen:

Ç) A nifa.aero/ldg-score/co						ر 💷	☆│≡	- 12
NI	FA Landing Cards Home	Admin 👻						l	.ogout
								A	dd Event
Ve	ents for Sample SAF	ECON Landings	5						
	ents for Sample SAF	ECON Landings	Main Contest Event	Wp Data Form	Actions				
d 15	5.00	500		Wp Data Form	Actions Heats	Edit	Results	Delete]

Click on the "Export" button and a comma separated values document will download. Save this file to your computer. You will then either upload that file into the Main Scoring Module or email that file to the Chief Judge or Scorekeeper for uploading into the Main Scoring Module. The "Results" button on this screen will simply create an html file with detailed results of all the landings.

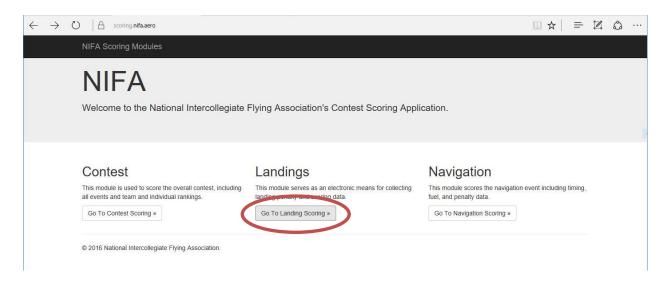
NIFA Electronic Landing Card System

This section will discuss scoring the events with the use of the Electronic Landing Cards and cover contingencies as well. The way the Electronic Landing Card System is designed is fairly simple. The heats are created when the Landing Events are set up in the initial contest. The heats are then "Started" with the Start Card Judge. The Start Card Judge will fill out the Electronic Start Card in the staging area by obtaining the contestant's ID numbers and unique aircraft information (type, color, school, N-number) and inputting this information into the Electronic Start Card. Once this information is loaded into the Start Card, it is then pushed out to the rest of the landing cards. For this reason, the A, B, C, D, E, F, G, Result, and Upload cards will not have any data until the Start Card has input that information. Generally speaking, you will have information for three to five heats ahead. The Electronic Landing Cards are designed to be used on any device that has active internet connectivity. For convenience, a tablet device with a minimum screen size of approx. 7.9" (iPad Mini) is recommended. The screen images in this section have been taken from a Windows based desktop PC. The actual presentation will vary on other devices, but in general is very similar to the presentations you will see in this manual.

Logging In to the Electronic Landing Card System and Navigating the Electronic Cards

Logging in to the Electronic Landing Card System

To login and access the Electronic Landing Cards, please see the section of this manual "Access & Login" and then select the Landing Scoring Module.



Once logged in, the judge will need to select the appropriate contest to work from the drop-down list and then click "Submit." The list of contests will vary for each judge, as it will display a complete list of contests that have been assigned to that judge. In this example, we will continue to use our "Sample SAFECON Landings" contest.

O A nifa.aero//ldg-score/registrations/select	$\square \Rightarrow = \mathbb{Z}$
NIFA Landing Cards Home Admin +	Logout

Which contest would you like to work?

Select a Contest/Role:	Choose an Option	
	Region 2 SAFECON 2015 **TEST**	
	Region 6 SAFECON 2014 **TEST**	
Submit	National SAFECON 2015	
	2016 Pre-National Testing	
	National SAFECON 2016	
	Sample SAFECON Landings	

Once the judge has selected and submitted the proper contest, he/she will be taken to a page showing all cards they are authorized for during that contest. The list will be different for every judge. Shown here is the listing of all cards for both events. This would be appropriate for the Chief Judge of the SAFECON for example.

Þ	Image: Object to the second	
	NIFA Landing Cards Home Admin -	Logout

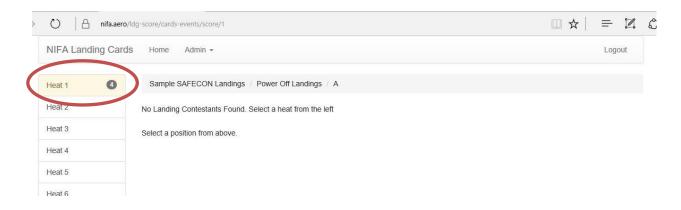
Event	Card	Actions
Power Off Landings	A	Score
Power Off Landings	В	Score
Power Off Landings	С	Score
Power Off Landings	D	Score
Power Off Landings	E	Score
Power Off Landings	F	Score
Power Off Landings	G	Score
Power Off Landings	Start	Score
Power Off Landings	Result	Score
Power Off Landings	Upload	Score
Short-Field Landings	А	Score
Short-Field Landings	В	Score
Short-Field Landings	С	Score
Short-Field Landings	D	Score
Short-Field Landings	E	Score
Short-Field Landings	F	Score
Short-Field Landings	G	Score
Short-Field Landings	Start	Score
Short-Field Landings	Result	Score
Short-Field Landings	Upload	Score

Cards available for Sample SAFECON Landings

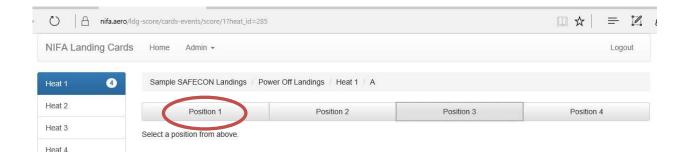
From this screen, the judge would click on the "Score" button next to the appropriate card for the proper event to begin entering scores.

Navigating the Electronic Landing Cards

This section will show how to navigate the A, B, C, D, E, F, and G Cards. The Start, Result, and Upload Cards function slightly differently and will be described in their own sections of this manual. For the purposes of this section, we will show how to navigate the cards using the Power Off Landing Event A Card. When the judge clicks on the "Score" button next to the Power Off Landings A Card, they will initially see this screen:



The highlighted Heat 1 on the left with the ball number 4 next to it indicates that the Start Card has loaded information for Heat 1, and there are 4 aircraft in that heat. The other heats are still blank indicating that the Start Card has not yet input any information for those heats. To view and enter scores in the Electronic A Card for Heat 1, simply click on Heat 1. You will then see this screen, where we will select Position 1.



VIFA Landing	Cards Home Admin -			Logout
leat 1	Sample SAFECON Landings	Power Off Landings / Heat 1 / A		
eat 2	Position 1	Position 2	Position 3	Position 4
eat 3	A/C Type			
eat 4	Color	White and red/gr	ау	
at 5	N-Number	N500SU		
eat 6	School			
eat 7	Londing 1	Land	ing 0	Landing 9
eat 8	Landing 1	Land	ing z	Landing 3

After selecting Position 1, we will see this screen, and we will then select Landing 1.

Now we will see the data entry screen for Heat 1, Position 1, Landing 1. We can verify this very easily by looking at the blue highlighted fields and by referencing the grey status bar that is always present at the top of each card. The grey status bar will always show the judge what contest, event, heat, and card they are currently working on. The position and landing can be verified by looking at which fields are highlighted in blue. The heat can be further verified by looking at the left side of the screen and see which heat is highlighted in blue.

NIFA Landing Ca	ards Home Admin -				Logout
Heat 1 4	Sample SAFECON Landings / Pow	er Off Landings / Heat 1 / A	9	Status Bar	
Heat 2	Position 1	Position 2	Position 3		Position 4
Heat 3	A/C Type				
Heat 4	Color	White and red/gra	n/		
Heat 5	N-Number	N500SU	y		
Heat 6	School				
Heat 7					
Heat 8	Landing 1 Distance Score	Landir	ng 2	La	anding 3
Heat 9	Distance ecore				
Heat 10	Feet				
Heat 11	Scoring Penalties				
Heat 12	Penalties 🗌 Landed ou	utside of Target Box			
Heat 13	Did Not La	and			
Heat 14	Disqualifications				
Heat 15	Disqualifications				
Heat 16	Submit				

Once the aircraft has landed and a score or penalty has been assessed, the judge must click on the "Submit" button at the bottom left to record the score in the system. The confirmation screen will then be displayed. In this example, we have assessed a distance score of 26 for this contestant.

NIFA Landing Ca	ards Home Admin -				Logout
The Landing has been	n saved.				×
Heat 1 ④	Sample SAFECON La	andings / Power Off Land	lings / Heat 1 / A		
Heat 2	Position 1		Position 2	Position 3	Position 4
Heat 3	A/C Type				
Heat 4	Color		White and red/g	aray	
Heat 5	N-Number		N500SU		
Heat 6	School				
Heat 7				-	
Heat 8	Distance Score	ding 1	Lan	ding 2	Landing 3
Heat 9					
Heat 10	Feet	26			
Heat 11	Scoring Penaltie	s			
Heat 12	Penalties	Landed outside of Ta	irget Box		
Heat 13		Did Not Land			
Heat 14	Disqualifications				
Heat 15	Disqualifications				
Heat 16	Submit				

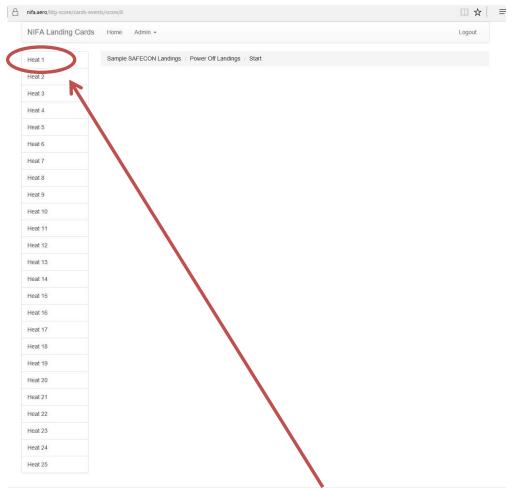
To continue entering scores as the event progresses, the judge would now click on Position 2 and then click on Landing 1, record and submit the score, and then move on to Position 3, Landing 1. This process would continue until the heat is complete. At that point, simply select the next heat, and begin with Position 1, Landing 1 continuing to record scores. Keep in mind the "Submit" button <u>must</u> be clicked after every landing in order to record the score into the Electronic Landing Card System. The navigation around the B, C, D, E, F, and G Cards is identical to the navigation around the A Card.

Start Card

The Start Card is where the heats are started. On this card the Judge will meet each contestant and get their ID number. The judge will then input the ID number into the Electronic Start Card. The Electronic Start Card will query the NIFA Main Scoring Module and return the contestant's name and school to the judge for verification. As the judge assigns the heat and positon for the contestant, the Electronic Start Card will query the proper Aircraft Information Form for the unique aircraft information. This form

should have been filled out prior to the start of the competition by the contestant or his/her school. If any errors are found, an error message will be displayed.

To begin, the Start Card Judge must go to the Landing Events Scoring Module and log in and select the correct contest to work. Please reference the earlier section <u>"Logging in to the Electronic Landing Card System"</u> if there are questions on how to login. Once logged in, the Start Card Judge simply needs to click on the "Score" button next to the Start Card for the appropriate event. For our example, we will use the Power Off Event Start Card.



This is the initial screen you will see after clicking on the "Score" button:

To begin adding information, click on a heat on the left. For this example, we will click on Heat 1.

You will now have this screen:

iifa.aero/ldg-score/ca	ards-events/score/8?heat_id=235					
NIFA Landing (Cards Home Admin -					Logout
Heat 1	Sample SAFECON La	andings / Power Off L	andings / Heat 1	Start		
Heat 2	Position	Contestant	School	Aircraft Type	N-Number	Actions
Heat 3						
Heat 4	Add Contestant					
Heat 5	Contestant Number	1234			abul 🚽	ge Input
		L				Beinpar
Heat 6	Name	Joe Pilot				
	Name	Joe Pilot OSU				n Output
Heat 7	School	OSU			System	n Output
Heat 7 Heat 8					System	
Heat 7 Heat 8 Heat 9	School	OSU			System	n Output
Heat 7 Heat 8 Heat 9 Heat 10	School	OSU 1	· · · · · · · · · · · · · · · · · · ·		System	n Output
Heat 6 Heat 7 Heat 8 Heat 9 Heat 10 Heat 11 Heat 12	School Position Ac Type	OSU 1 C150	· · · · · · · · · · · · · · · · · · ·		System	o Output

You will enter the contestant's ID number in the top field. The result from the query will populate the contestants name and school into the two grey fields. Next, select the position in the heat the contestant will be flying in from the drop-down selection. The result from the query will populate the fields below for you. Verify all this information is correct and then click the "Submit" button in the lower left corner.

You will now see this screen.

nifa.aero/ldg-score/ca	ards-events/score/8?heat_id=285						□ ☆
NIFA Landing C	Cards Home Admin •						Logout
The Landing Contes	stant has been saved.						×
Heat 1	Sample SAFECON La	andings / Powe	er Off Landings /	Heat 1 / Start			
Heat 2	Position Co	ntestant	School	Aircraft Type	N-Number	Actions	
Heat 3	1 Joe	e Pilot	OSU	C150	N500SU	Edit Delete	
Heat 4							
Heat 5	Add Contestant						
Heat 6	Contestant Number						
Heat 7	Name						
Heat 8							
Heat 9	School						
Heat 10	Position	Select a po	sition		~		
Heat 11	Ас Туре						
Heat 12	Color						
Heat 13	N Number						
Heat 14	i i i i i i i i i i i i i i i i i i i						
Heat 15	Submit						

You can edit or delete that contestant if needed. You will need to repeat this process for all 4 positions in each heat. Also notice the small ball number next to Heat 1 in the top left. This ball number shows you how many contestants have been successfully submitted to the Electronic Landing Card System for that heat by the Start Card. When you see a ball number here, that is your confirmation that the information has been pushed out to the other cards.

Once the entire heat is built, you should have a screen similar to this:

malaero/log score/cards	s-events/score/8?heat_id=235						□ ☆
NIFA Landing Ca	rds Home Admin •						Logout
The Landing Contesta	nt has been saved.						×
Heat 1 4	Sample SAFECON La	ndings / Powe	r Off Landings / He	at 1 / Start			
Heat 2	Position Cor	ntestant	School	Aircraft Type	N-Number	Actions	
Heat 3	1 Joe	Pilot	OSU	C150	N500SU	Edit Delete	
Heat 4	² Charl	es Yeager	USAFA	C150	N557SH	Edit Delete	
Heat 5 Heat 6		Eagle	ERAU-P	C150	N42ER	Edit Delete	
Heat 7			OK-STATE	C150	N600SU	Edit Delete	
Heat 8		winging	OR STATE			Dotte	
Heat 9	Add Contestant						
Heat 10	Contestant Number						
Heat 11	Name						
Heat 12	School						
Heat 13	Position	Select a pos	sition		~		
Heat 14 Heat 15	Ас Туре						
Heat 16	Color						
Heat 17	N Number						
Heat 17							

At this point, you can edit or delete any contestants you need to. If you are satisfied with Heat 1, simply click on Heat 2 on the left side and continue to repeat this process until the event is over.

A Card

The A Card is used for recording the distance score of the contestant when they land. To access the Electronic A Card, the authorized judge will need to login to the NIFA Landing Events Scoring Module and select the appropriate contest. Please reference the earlier section <u>"Logging in to the Electronic Landing Card System"</u> if there are questions on how to login. Once the list of authorized cards appears, the judge will need to click the "Score" button next to the A Card for the proper event. In this example, we will continue by demonstrating with the Power Off Landing Event. This example will show the Power Off A Card for Heat 1, Position 1, Landing 1. For questions on how to navigate around the event in the Electronic Landing Card System, please review the earlier section on <u>"Navigating the Electronic Landing Cards."</u>

The data entry portion of the card is now shown for Heat 1, Position 1, Landing 1 for the A Card judge to enter a distance or check the appropriate box for landing outside the target box or going around (did not land). There is no penalty assessed by the Electronic Landing Card System for the "Did Not Land" checkbox. The penalty for a go-around is assessed on the G Card. The A Card Judge <u>will need</u> to check this box anytime a contestant goes around. This is for two reasons: First, it eliminates confusion about did the judge simply forget to record the distance and second, it feeds into the overall rankings if a student goes around on all the landings, but does not disqualify. It will then properly rank them behind all the contestants that did land and ahead of all the contestants that disqualified.

NIFA Landing Ca	urds Home Admin -			Logout
leat 1 🛛 🕚	Sample SAFECON Landings / Pow	ver Off Landings / Heat 1 / A		
leat 2	Position 1	Position 2	Position 3	Position 4
leat 3	A/C Type	C150		
leat 4	Color	White and red/gr	av	
eat 5	N-Number	N500SU	2	
eat 6	School	Ohia Stat	_	
eat 7		Ohio State		
eat 8	Landing 1 Distance Score	Land	ing 2	Landing 3
eat 9	Distance Score			
eat 10	Feet 26			Distance Score
eat 11	Scoring Penalties			
eat 12	Penalues Landed o	outside of Target Box		
eat 13	Did Not L			
eat 14	Disqualifications			
eat 15	Disgualifications			
	Submit			

Looking at the data entry portion of the Electronic A Card, you will notice the contestant's name and ID number is not shown. This is on purpose, as that information is not needed to help identify the aircraft. The aircraft type and it's characteristics will be shown to help identify the plane. Also note the grey status bar is shown just above the data entry fields so the judge can easily reference what event they are inputting information for. In this example, we will assess a distance score of 26 feet. Once the distance and any penalties are correct, the judge must click on the "Submit" button in the lower left corner to save this information into the Electronic Landing Card System.

NIFA Landing	Cards Home Admin -			Logout
Heat 1	Sample SAFECON Landings / Pow	wer Off Landings / Heat 1 / A		
Heat 2	Position 1	Position 2	Position 3	Position 4
Heat 3	А/С Туре	C150		
Heat 4	Color	White and red/gra	3V	
Heat 5	N-Number	N500SU	3	
Heat 6	School	Ohio State		
Heat 7				
Heat 8	Landing 1 Distance Score	Landir	ng 2	Landing 3
Heat 9				Distance Course
Heat 10	Feet 26			Distance Score
Heat 11	Scoring Penalties			
Heat 12	Pena des 🗌 Landed d	outside of Target Box		
Heat 13	Did Not L	and		
Heat 14	Disqualifications			
Heat 15	Disgualifications			
Heat 16	Submit			

Once the landing has been saved into the Electronic Landing Card System, you will see this screen with the green confirmation bar at the top.

NIFA Landing	Cards Hane Aumin -			Logout
The Landing has I	been saved.			,
	Sample SAFECON Landings / P	awar Off Landings 11 Llast 4: 114		
	Sample SAFECON Landings / P	ower Oil Landings / Heat 1 / A		
Heat 2	Position 1	Position 2	Position 3	Position 4
Heat 3	A/C Type			
Heat 4	Color	White and red/gray		
Heat 5	N-Number	N500SU		
Heat 6	School			
Heat 7				
Heat 8	Landing 1	Landing 2		Landing 3
Heat 9	Distance Score			
Heat 10	Feet 26			
	Scoring Penalties			
Heat 11				
Heat 12	Penalties Landed Did No	d outside of Target Box		
Heat 13		n Lanu		
Heat 14	Disqualifications			
Heat 15	Disqualifications			

After the landing is saved, the judge will continue to progress through the event as described in the <u>"Navigating the Electronic Landing Cards"</u> section of this document. Remember, the "Submit" button must be clicked after each landing or the score will not be recorded in the Electronic Landing Card System!

B, C, D, E, F, and G Cards

These cards have been combined into one section because their functionality is identical, even though they contain different penalties. The respective judges will select, navigate, and enter penalties on these cards in the exact same manner. For this example, we will use the E card.

To access the cards, the judge must login and choose the proper card from the list. Please reference the earlier sections <u>"Logging in to the Electronic Landing Card System"</u> and <u>"Navigating the Electronic Landing Cards."</u> if there are questions on how to login or navigate the cards. Here we will show the E Card for the Power Off Landing Event. In this example, we have assessed two penalties, "Addition of Power After Reduction" and a "Constant Turn to Final." To assess the penalties, simply click on the penalty. If you later decide it was not valid, simply click on the penalty again to deselect it. Be sure to click the "Submit" button after each landing to save the penalties in the scoring system.

Once you have submitted the penalties, you will see this confirmation screen with the green confirmation across the top.

After the landing is saved, the judge will continue to progress through the event as described in the <u>"Navigating the Electronic Landing Cards"</u> section of this document. Remember, the "Submit" button must be clicked after each landing or the score will not be recorded in the Electronic Landing Card System!

Result Card

The result card should generally be restricted to just the Head Event Judge and the Chief/Assoc. Chief Judges of the SAFECON. This card displays a list of the all the landings that have been completed and submitted to the Electronic Landing Card System. Access is as described in the <u>"Logging in to the Electronic Landing Card System"</u> section of this manual. Navigation is a little different.

In this case, only one landing has been scored, but four contestants have been entered by the Start Card Judge. The only landing score submitted to the system is for contestant number 1234. They have received a score of 251. For a detailed breakdown of their score, simply click on the score.

Here you can see that on Landing #1 they received a distance score from the A Card of 26, and penalties on the E Card of "Addition of Power After Reduction" and "Constant Turn to Final." On the G Card they also received an "Addition of Power" penalty, but the system automatically checked for duplications and eliminated the second penalty, which is why that penalty is shown with a line stricken through it. The system will automatically account for any penalties that can be assessed on multiple cards, and if appropriate per NIFA rules, will allow that penalty to only be assessed once. If the student had disqualified, as shown below, all of the penalties the student had accrued will be shown in the detailed result as well as the DQ.

Upload Card

This card is reserved for future use.

Contingencies

This section will look at how to deal with changes in pilots, aircraft, sequence, or malfunctions of the Electronic Landing Card Scoring System.

Pilot Changes

One of the best features of the Electronic Landing Card System is that pilot changes are no longer an issue. Since the pilot provides their contestant ID to the Start Card Judge just prior to the hot box, there should never be a situation where the pilot in a plane changes after the Start Card is created for that pilot. The most likely outcome of a pilot change at this point would be a mechanical or other malfunction, and that will be addressed in other contingencies. For this reason, the Start Card Judge should try to work no more than three to four heats ahead of the active heat.

Aircraft Changes

Occasionally a school may need to fly a plane other than what they had input into the Landing Aircraft Information Form. Should this happen, the Start Card Judge will simply need to overwrite the information that is propagated into the form from the query.

Mechanical Issues/No Keys

Should a contestant have a mechanical problem in the hot box or any time prior to taking off, or forget their keys, the Start Card Judge should attempt to be astute enough to observe this. The best corrective action is to locate that pilots Start Card and simply delete the contestant from that position. A radio call to the field needs to then be made when this is done instructing the other card judges to simply refresh their page. By looking at that ball number next to the affected heat, the judges will be able to verify that an aircraft was removed from that heat by the Start Card Judge, and as such, they will no longer have a card for that position. If time does not permit this to happen before the heat takes off, care will have to be exercised by the card judges to not assess any penalties to that position. After the heat is over, that position can then be deleted by the Start Card.

Sequence Changes/Cutoffs in the Traffic Pattern

This situation is handled just as it is with the paper landing cards. The individual card judges must pay attention and make certain that they are assessing any penalties to the proper aircraft.

Malfunction of the Electronic Landing Card System

This is always a concern anytime an electronic system is used for any purpose. It is absolutely critical that some kind of paper backup or record be kept by each card judge for use in the unlikely event the Electronic Landing Card System fails. Any technique that works for a particular judge is acceptable, but one strongly recommended technique is to provide the judges with a heat sheet that has far more white space in each cell to write notes. This may mean that the judges heat sheet is now a few pages long instead of just one page, but it is a very simple and concise way to write down penalties in case the backup is needed.

Navigation Event Scoring Module - Administrative

This section of the NIFA Scoring System User's Manual will discuss how to create the Navigation Event, how to link it to the Contest Scoring Module, and how to assign Users and permissions to the Navigation Event. We will continue to use our "Sample SAFECON" contest for this example.

Creating the Navigation Event

To create the Navigation Event, access the NIFA Scoring System and select the Navigation Scoring Module. Please see the "Access & Login" section of this manual for instructions on accessing the NIFA Scoring system.

□ NIFA Scoring Modules × +			- 0	×
\leftarrow \rightarrow O \mid ${ riangle}$ scoring.nifa.aero			Z C) ···
NIFA Scoring Modules				
NIFA Welcome to the National Intercollegiate	Flying Association's Contest Scoring Appl	ication.		
Contest	Landings	Navigation		
This module is used to score the overall contest, including all events and team and individual rankings.	This module serves as an electronic means for collecting landing penalty and scoring data.	This module scores the navigation event including timing, fuel one periary using		
Go To Contest Scoring »	Go To Landing Scoring »	Go To Navigation Scoring »		
© 2016 National Intercollegiate Flying Association.				

Once logged in, you will see the Navigation Scoring Module home screen:

□ NIFA Navigation Event ! × +	- 🗆 X
\leftarrow \rightarrow O \mid A scoring.nifa.aero/navigation	
NIFA Scoring Module Participants Routes Judges + Admin + Which contest would you like to work? Select a Contest/Role: Choose an Option Submit	Notice no Sample SAFECON in the drop- down list.

Select the competition you would like to work on from the drop down menu. You will notice our "Sample SAFECON" does not appear in the list. This is because we have not yet created the Navigation Event in our Sample SAFECON. In order to create our Navigation Event for our Sample SAFECON, click on "Admin" and then click on "Contests" from the drop-down menu that appears.

INIFA Navigation	Event : × +		-		×
$\leftarrow \rightarrow 0$	scoring.nifa.aero/nav	igation III 🛧 =	2	۵	
	NIFA Scoring Module	Participants Routes Judges - Admin - Select Contest Logout			
	Which contest would	you like to work?			
	Select a Contest/Role:	Choose an Option V			
	Submit				

You will now see a screen similar to this one. You may have no contests displayed, or you may see a short list of contests. Your exact view will be determined by how many contests you have been assigned to in the past. Regardless, you will need to click on the "New Contest" button near the upper right corner to create the Navigation Event for Sample SAFECON.

NIFA Navigation	Event : × +		- 🗆 X
$\leftarrow \rightarrow $ D	scoring.nifa.aero/navigation/contests		$\square \Leftrightarrow = \mathbb{Z} \land \cdots$
	NIFA Scoring Module Participants Rou	tes Judges + Admin +	Select Contest Logout
	Contests		New Contest
	Name	Actions	
	Test Contest	Users Edit Delete	
	< previous next >		

Clicking on "New Contest" will bring up the following screen:

NIFA Navigation	Event : × +		-		×
$\leftarrow \rightarrow $ \heartsuit	scoring. nifa.aero /nav	igation/contests/add 🔟 🕁 📔 🚍	2	٩	•••
	NIFA Scoring Module	Participants Routes Judges - Admin - Select Contest Logout			
	New Contest				
	Name				
	Main Scoring Module Contest	2016 Region I SAFECON			
	Submit				

From this screen, you will need to name the Navigation Event contest and also link it to the proper Main Scoring Module. For our example, we will name it "Sample SAFECON Navigation" and we will link it to the Sample SAFECON Main Scoring Module from the drop-down menu and then click on "Submit." Suggested naming convention would be to simply title it with the year and scope (Regional or National) of your SAFECON.

□ NIFA Navigation Event £ × +		-		×
\leftarrow \rightarrow O A scoring.nifa.aero/navigation/contests/add \square \bigstar	₽	2	٩	
NIFA Scoring Module Participants Routes Judges - Admin - Select Contest Logo	out			
New Contest				
Name Sample SAFECON Navigation				
Main Scoring Module 2016 Region II SAFECON Contest 2016 Region II SAFECON Submit 2016 Region IV SAFECON 2016 Region IV SAFECON 2016 Region IV SAFECON 2016 Region VI SAFECON 2016 Region VI SAFECON 2017 Region II SAFECON 2016 Region VI SAFECON 2018 Region II SAFECON 2016 Region VI SAFECON 2015 Region II SAFECON 2016 Region VI SAFECON 2015 Region II SAFECON 2016 Region VI SAFECON 2016 Region VI SAFECON 2016 Region VI SAFECON 2017 Region II SAFECON 2016 Region VI SAFECON 2018 Region II SAFECON 2016 Region VI SAFECON 2018 Region II SAFECON 2016 Region VI SAFECON 2018 Region II SAFECON 2016 Region VI SAFECON 2019 Region X SAFECON 2016 Region VI SAFECON 2010 Region X SAFECON 2016 Region X SAFE				

Once you have submitted your information, you will be returned to the list of all contests you have been assigned to in the past and you will see a green confirmation bar at the top stating that your contest was saved, and your contest will now appear in the list.

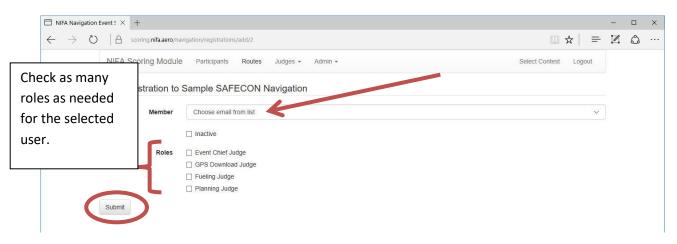
□ NIFA Navigation Event : × +		- (x c
\leftarrow \rightarrow \circlearrowright \mid $rac{l}{2}$ scoring.nifa.aero/navigation/contests	□ ☆ =	26	ე
NIFA Scoring Module Participants Part	Select Confest Logout		
The contest has been saved.	×		
Contests	New Contest		
Name	Actions		
Test Contest	Users Edit Delete		
Sample SAFECON Navigation	Users Edit Delete		
< previous next >			

Assigning Users to the Navigation Event

Now that we have created our Navigation Event for Sample SAFECON, we need to add Users, or Judges, to the event. To do this, click on the "Users" button as shown in the above image. You will now be presented with the screen that lists all users currently assigned to the event. To add Users to the Event, click on the "Add User" button in the upper right corner to begin.

NIFA Navigation	Event : × +					-		×
\leftrightarrow \rightarrow O	Scoring.nifa.ae	ero/navigation/registrations/in	dex/2		□ ☆ =	Z	٩	
	NIFA Scoring Mo	odule Participants I	Routes Judges + Admin +		Select Contest Logout			
	Registrations	for Sample SAFE		Add Use				
	User	Inactive	Created	Modified	Actions			

To add a user, type in the email address associated with that user's nifa.aero account and select it from the drop-down menu. After selecting the user from the list, assign their roles. The user should only be granted access to the specific role they will be performing in the Navigation Event. You can select as many roles as needed by simply checking the box next to the desired role(s). Once you have chosen your user and assigned their roles, click on the submit button.



You will be returned to the list of current users and you will see the green confirmation bar at the top as well as now seeing your user added to the list.

NIFA Navigation Event $ imes$ +						1	
$ ightarrow$ ($rac{1}{2}$ scoring.nifa.aero/navigati	on/registrations/index/2			0	3☆ =	2	٩
NIFA Scoring Module	Routes	Juages 👻 Admin 👻		Colect Confe	st Logout		
The registration has been saved	L				×		
Registrations for Sar	mple SAFECOL	N Navigation			Add User		
riegiotrationo for our							
User	Inactive	Created	Modified	Actions			
ehessgt@gmail.com	Inactive	Created 9/30/16, 4:44 PM	Modified 9/30/16, 4:44 PM	Actions			

Building the Navigation Routes

Now that we have created the Navigation Event in our Sample SAFECON, we must build the routes before we can run the event. To build the navigation routes, log in to the NIFA Scoring System Navigation Module and when presented with the home screen, choose the contest you would like to work, then click submit. We will continue working with our Sample SAFECON. You should now see this screen:

NIFA Navigation	Event : × +						-		×
$\leftarrow \rightarrow $ \heartsuit	A scoring.nif	a.aero/navigation/participants					- 12	٩	
	NIFA Scoring I	Module Participants Rou	tes Judges +	Admin -		Select Contest Logout			
	Sample SAFECON	Navigation / Participants				Add Participal	ıt		
	Pilot	Observer	School	N Number	Route	Actions			

Once you have selected a contest to work, the default screen is the participant (contestant) list for that contest. To begin building the navigation routes, click on "Routes" from the menu bar at the top. You should now be at the page showing the navigation routes for Sample SAFECON.

□ NIFA Navigation Event : × +					-		×
\leftarrow \rightarrow \circlearrowright $ $ \bigcirc scoring.nifa.aero/navigation	on/routes				2	٥	
NIFA Scoring Module	Participants Routes Judges -	Admin 🗸		Select Contest Logout			
Sample SAFECON Navigation /	Routes			New Route		>	
Designator Sta	art Lat Start Lon	Turnpoints	Turnpoint Radius	Actions			

This page will show the routes for Sample SAFECON. To begin building a new route, click on the "New Route" button in the upper right corner. You will be presented with the dialog to start building a new route. Enter the information asked for and when done, click on "Submit." It is recommended to name the routes using letters. The "Tp Radius" box is the radius of the turnpoint circle in nautical miles and the "Turnpoint Count" box is asking for the number of checkpoints. In this example we have entered a radius of 0.25 nautical miles and 5 checkpoints on route A.

\Box NIFA Navigation Event : \times	+			-		×
\leftarrow \rightarrow O \mid A	coring nifa.aero/navigation/routes/add/2	□ ☆	=	2	٩	
NIFA S	Coring Module Participants Routes Judges - Admin - Select Cont	est Log	jout			
New Ro	ute					
Latitude/Lor	Name A gitude shall be in Decimal degress (D.ddddd). West and South shall be entered as negative numbers. Start Lat 40.774 Start Lon -83.0736 Tp Radius 0.25					
Tu Submit	Number of Checkpoints					

You will be returned to the list of navigation routes and you will see the green confirmation bar that your new route has been saved. You will need to do this for each of the navigation routes in your SAFECON.

□ NIFA Navigation Event 5 × +						-		×
\leftarrow \rightarrow O \mid A scoring.nifa.aero/navigation/routes	/index/2				☆│ ≡	1	٩	
NIFA Scoring Module Participa	nts Routes Judges	✓ Admin ✓		Select Contest	Logout			
The route has been saved.					×			
Sample SAFECON Navigation / Routes					New Route			
Designator Start Lat	Start Lon Tur	rnpoints	Turnpoint Radius	Actions				
A 40.774000	-83.073600 5		0.25	Turnpoints Edit Delete				

You will see your route with three actions you can perform:

- Turnpoints will allow you to enter the coordinates for the 5 turnpoints
- Edit will allow you to edit the route name, starting latitude, starting longitude, and turnpoint radius. You will not be able to edit the number of turnpoints.
- Delete will allow you to delete the entire route

Click on the "Turnpoints" button to begin entering the coordinates for each turnpoint on the route.

\Box NIFA Navigation Event ! \times	+				-		×
$\leftarrow \rightarrow \circ \circ \mid \exists$	coring.nifa.aero/navigation/tumpoints/index	/2			Z	۵	
NIFA S	coring Module Participants R	outes Judges - Admin -		Select Contest Logout			
Sample	e SAFECON Navigation	Route A Turnpoints		Add Tumpoint			
Order	Latitude	Longitude	Altitude	Actions			

Initially, you will see a blanks screen for turnpoints on route A. To begin entering the turnpoint coordinates, click on the "Add Turnpoint" button and fill in the required information. The coordinates <u>must</u> be entered in decimal degrees (DD.dddd) format and west longitude values must be entered as a negative value. See the below image for an example. The altitude over the checkpoint should be entered in MSL value (even though this metric is not scored, a value must be entered). The turnpoints can be entered in any order, so the "Display order" box tells the system what turnpoint this is. In our below example, we have entered the information for turnpoint #1 on route A. When satisfied, click "Submit."

\Box NIFA Navigation Event : \times $+$			-		×
\leftarrow \rightarrow \mho $ $ \triangle scori	ing.nifa.aero/navigation/turnpoints/add/2	□ ☆ =	- 12	۵	
NIFA Scor	ring Module Participants Routes Judges + Admin + Select	t Contest Logout			
New Turnp	point				
	Lat 40.0097				
	Lon -83.4187				
	Altitude 2500				
Disp	play Order 1				
Submit					

You will now be returned to the list of turnpoints for Route A and will see the green confirmation bar and the new turnpoint added to the list. You will need to repeat this process for each of the turnpoints on Route A.

NIFA Navigation E	event ! × +							-		×
$\leftarrow \ \rightarrow \ \mho$	6 scoring.nifa	aero/navigation/turnpoints/index/2					=	1	۵	
	NIFA Scoring M	lodule Participants Route	es Judges • Admin •			Select Contest Logo	out			
	The turnpoint has b	een saved.					×			
	Sample SAF	ECON Navigation Ro	oute A Turnpoints			Add Turn	point			
	Order	Latitude	Longitude	Altitude	Actions					
	1	40.009700	-83.418700	2,500	Edit Delete					

You will see two actions you can perform to that turnpoint:

- Edit will allow you to edit any of the information you entered for that turnpoint
- Delete will allow you to delete that turnpoint.

Now that you have successfully set up and built your Navigation Event and Routes, you are ready for the Navigation Event.

Navigation Event Scoring Module – Scoring

This section of the NIFA Scoring System User's Guide will discuss how to conduct the Navigation Event in the scoring system. The design of the system is such that participants (contestants) and their scoring data are entered into the system as the event progresses. This section of the manual will follow along with the process a student would go through in the event and how the judges will interact with the Navigation Scoring Module during the Navigation Event. Data access across the airport is beneficial for scoring the navigation event. The intent of the system is to enter data as it is generated (planning, GPS download, and refueling) so that a score is computed automatically as the event progresses. This will reduce the possibility of fatigue or other errors in the data entry process later on. Should data access not be available, it is possible to upload the information at the completion of the event once back in an area with internet access. We will continue to use our Sample SAFECON example.

Adding a Participant

The first step in creating a score for a participant is to add them to the Navigation Scoring Module. This will happen after the student has completed their flight planning and had it verified by a judge in the planning room and before the student leaves to go to his/her airplane. To add a participant, an authorized judge in the planning room must be logged in to the Navigation Scoring Module and have selected the participants screen.

NIFA Navigation I	Event : × +						-		×
$\leftarrow \rightarrow 0$	Scoring.nifa.aero/nav	igation/participants					2	٥	
	NIFA Scoring Module	Participants F	Routes Judges + Admin	-		Select Contest Logout			
	Sample SAFECON Navigat	on / Participants				Add Participant			
	Pilot Observ	er	School	N Number	Route	Actions			

Once the student's planning is finished and verified, the student will sit down with the judge and the judge will click on the "Add Participant" button at the top right of this screen.

When the add participant screen appears, the judge should input the pilot ID number and verify the returned name matches the pilot. The judge should then input the safety observer ID number and verify the correct name is returned. At this point, the judge should ask the student to select the route and the student should enter their flight planning information into the scoring system. Once the student has verified it, have the student sign their name and click on the "Submit" button. It is very important to have the student enter and sign off on the data, not the judge! Having the student input this information will help to absolve the judging staff of being blamed for incorrect data entry.

Sample SAFECON Navigation					
	on / Add Participant				
Pilot Contestant Number	1015	J	udge Inp	ut	
Pilot Name	Charles Yeager	System Out			Note that it is not possi
School	University of North Dakota	System Out	put		to change data in the g
Observer Contestant Number	1016		Judge I	nput	system output boxes
Observer Name	Scott Crossfield	System O	utput		
N Number	N12345				
Route	А				~
Leg 1 ETE	10	15			
Leg 2 ETE	8	00			
Leg 3 ETE	6	24			
Leg 4 ETE	15	54			
Leg 5 ETE	14	12			
Total ETE	0 5	54	45		
Plan Fuel	12.3				
Pilot Signature					
			$\overline{\lambda}$		

You will now be returned to the participant list page and you will see the green confirmation bar at the top and the participant will now appear in the list.

NIFA Navigation	Event ! × 🗇 NIFA Contest !	Scoring +							×
$\leftarrow \rightarrow $ \heartsuit	Scoring. nifa.aero /na	wigation/participants				□ ☆ =	- 12	۵	
	NIFA Scoring Module	e Participants Routes	Judges 👻 Admin 👻			Select Contest Logout			
	The participant has been s	aved.				\$:		
	Sample SAFECON Naviga	tion / Participants				Add Participar	nt		
	Pilot	Observer	School	N Number	Route	Actions			
	Charles Yeager (1015)	Scott Crossfield (1016)	University of North Dakota	N12345	A	View Score Fuel Delete			

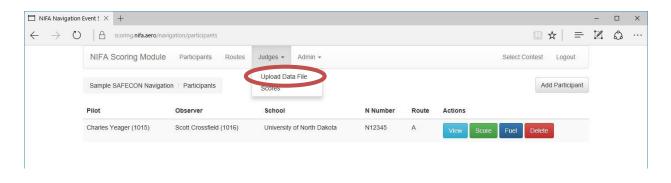
There are four actions that can be performed for each contestant in the list:

- View will allow you to simply view the flight planning information the contestant entered. You will not be able to edit this by design. We do not want to have the ability to change data the student entered and signed off on.
- Score will allow you to view the complete score for the contestant as well as giving you entry options for uploading GPX files, fuel data, or other penalties such as incorrect symbols.
- Fuel will allow you to enter the actual fuel used for the contestant.
- Delete will delete all scoring data for this contestant. If the contestant made a mistake on his/her data entry, you will need to delete them and then start over.

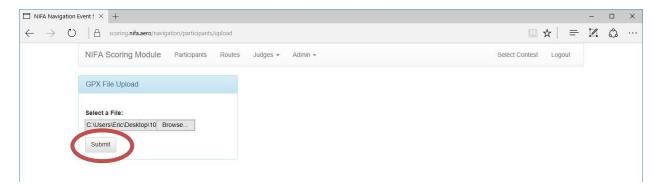
These four actions will allow us to run the event without data access in the field, we can save the pertinent data and upload it at the end of the event through the use of these actions.

GPS File Upload

The second point of data that is generated and needed for scoring the contestant will be the GPS track that is downloaded after the contestant has completed flying the navigation route. The judge should download, name, and save the track as per current procedures. Once that is done, the judge will then upload the GPS file to the Navigation Scoring Module. To do this, the GPS download judge will need to log in to the Navigation Scoring Module and from the header click on the "Judges" drop-down menu and then click on "Upload Data File."



The file upload window will now be displayed.



Browse through your device and select the data file for the contestant that has been downloaded and saved and then click the "Submit" button.

Once the file is uploaded, you will see the following screen asking you to verify this is the correct data file and asking if you wish to continue.

NIFA Navigation 8	vent: × +			1.777		×
$\leftarrow \ \rightarrow \ \mho$	scoring.nifa.aero/navigation/participants/upload			2	٩	
	NIFA Scoring Module Participants Routes	Judges 👻 Admin 👻	Select Contest Logout			
	GPX File Upload	Participant Info				
		School	University of North Dakota			
	Select a File: Browse	Pilot	Charles Yeager			
		Pilot Contestant Number	1015			
	Submit	Observer	Scott Crossfield			
		Observer Contestant Number	1016			
		Route	A			
		Cancel				

Verify that the Pilot and Safety Observer information and the Route is correct and if so, click on the "Continue" button to upload this file to the Navigation Scoring Module. You will see the following confirmation screen.

NIFA Navigation E	vent: X +	-		×
$\leftarrow \ \rightarrow \ \mho$	🛆 scoring nifa.aero/navigation/participants/upload	2	۵	
	NIFA Scoring Module Participants Routes Judges - Admin - Select Contest Logout			
	Nav was graded successfully.			
	GPX File Upload			
	Select a File: Browse			
	Submit			

Entering Actual Fuel Used

The third point of data that is generated and needed for scoring is the actual fuel burn. To enter the actual fuel used into the Navigation Scoring Module for computing fuel penalty points, the authorized judge will need to log in to the Navigation Scoring Module and from the participants list screen select the "Fuel" action button next to the contestant they wish to enter fuel data for.

NIFA Navigation	Event ! × +								1.000		×
$\leftarrow \rightarrow$ C) A scoring.nifa.aero/na	avigation/participants						□ ☆ =	Z	٩	
	NIFA Scoring Module	e Participants Routes	Judges + Admin +				Select Cor	ntest Logout			
	Sample SAFECON Naviga	tion / Participants						Add Participant			
	Pilot	Observer	School	N Number	Route	Actions					
	Charles Yeager (1015)	Scott Crossfield (1016)	University of North Dakota	N12345	A	View Score	Fuel	Delete			

The screen for entering fuel used will appear. Enter the actual fuel burn from the fuel truck meter into the field and click the "Submit" button once the information is verified correct. In this case we have entered a fuel used of 12.9 gallons.

NIFA Navigation E	vent : \times +			-		×
$\leftarrow \ \rightarrow \ \mho$	Scoring.nifa.aero/navigation/participants/fuel/2			2	٩	
	NIFA Scoring Module Participants Routes Judges - Adr	nin 👻	Select Contest Logout			
	Sample SAFECON Navigation / View Participant					
	Pilot	Charles Yeager				
	Contestant Number	1015				
	Safety Observer	Scott Crossfield				
	Contestant Number	1016				
	School	University of North Dakota				
	N Number	N12345				
	Route	A				
	Disqualification					
	Actual Fuel Used		×			
	Submit					

You will be returned to the participant list and see the green confirmation bar at the top that the fuel data was saved.

NIFA Navigation	Event : × +								-		×
\leftrightarrow \rightarrow \circlearrowright	scoring.nifa.aero/nav	rigation/participants						□☆ =	Z	٩	
	NIFA Scoring Module	Participants Routes	Judges + Admin +				Select Conte	est Logout			
	The fuel data has been save	ed.						×			
	Sample SAFECON Navigati	on / Participants						Add Participant			
	Pilot	Observer	School	N Number	Route	Actions					
	Charles Yeager (1015)	Scott Crossfield (1016)	University of North Dakota	N12345	A	View Sc	ore Fuel De	elete			

Entering Miscellaneous Penalties, Editing Data, & DQ's

To enter miscellaneous penalties (such as missed or incorrect symbols) or edit data that has already been entered for a contestant, navigate to the participant list for your contest in the Navigation Scoring Module and click on the "Score" button next to that contestant.

NIFA Navigation	Event : × +								-		×
$\leftarrow \rightarrow $ C	contraction scoring.nifa.aero/na	avigation/participants						□ ☆ =	2	٩	
	NIFA Scoring Module	e Participants Routes	Judges + Admin +				Select Con	test Logout			
	Sample SAFECON Naviga	tion / Participants						Add Participant			
	Pilot	Observer	School	N Number	Route	Actions					
	Charles Yeager (1015)	Scott Crossfield (1016)	University of North Dakota	N12345	A	View Score	e uel C	elete			

The Score page contains a box for adding the miscellaneous penalties and shows the contestants score. The Score page also allows for editing or entering all the data needed to compute a score for a participant. If there is no internet access to enter the GPS files and fuel burn in real-time from the field as the event is progressing, this is the page you would use to manually input that data at the completion of the event. Also on the Score page is the box to manually enter a disqualification for a contestant. The system <u>will not</u> automatically disqualify a contestant. This must be done manually by a judge after reviewing the route, flight planning, score, or other material that may warrant a disqualification. The Score page also include detailed results of the contestants score and a map of the contestants track overlaid on the actual navigation route. The following page shows and describes the Score page in detail.

Participant Info			Conte: Inform			GPX File U	Upload	
Pilot	Charl	es Yeager (1015)			_	Select a Fil	e: Brows	24
Observer	Scott	Crossfield (1016)						
School	Unive	ersity of North Dakota				Submit		GPS File
N number	N123	45						Upload Box
Route	А							
iming & Turnpoint Data Actual Time of Departure:			13:42:14		Timir	ed Contestant ng and Score formation		6
Turnpoint Lat/Lon	ETE	Actual Lat/Lon	ATA	ATE	Time Pena	Ity Distance from Turnpo	int Turnpoint Per	nalty Method
1 40.0097/-83.4187	00:10:15	40.009739/-83.418716	13:52:08	00:09:54	21	0.00	0	ctp
2 39.871/-83.4972	00:08:00	39.869785/-83.496338	13:58:10	00:06:02	118	0.08	0	ctp
3 39.7309/-83.4628	00:06:24	39.730469/-83.463394	14:02:50	00:04:40	104	0.04	0	ctp
4 39.5673/-82.9521	00:15:54	39.566887/-82.951912	14:14:22	00:11:32	262	0.03	0	ctp
5 39.9332/-83.2773	00:14:12	39.934368/-83.275887	14:33:31	00:19:09	297	0.10	0	ctp
Total	00:54:45			00:51:17	208			
Timing & Distance Total S	Scores				1010		0	1010
	Fuel B Data		& Track M	ap		Mayenus		o Unca)
Actual 12.9 Submit Fuel Penalty Penalty Dat Misc.	Data 24.99 Penalti	a	annan ann an	ap	70 20 Jettersonally Octa	Willamaport	es crutte 770 Sahanna Iblus 771 Sahanna Iblus 772 Sahanna Iblus 772 Sahanna Iblus Sahanna	flight overlaid
Planned: 12.3 Actual 12.9 Submit Fuel Penalty Penalty Dat Misc. Submit	24.99 Penalti s missed prrect sy	a les such d or mbols	annan ann an	Springhed 20	-To -To 	And Crew Crew Crew Crew Crew Crew Crew Crew	nbus mo IS	Map of contesta flight overlaid actual route
Planned: 12.3 Actual 12.9 Submit Fuel Penalty Penalty Dat Misc. Submit inco	24.99 Penalti s missed prrect sy	a les such d or rmbols	Satellite	Springhed 20	-To -To 	nden Group Carte	bbus m 20 genito Lauribute	flight overlaid actual route
Planned: 12.3 Actual 12.9 Submit Fuel Penalty Penalty Dat Misc. a: Submit Enalty Points:	24.99 Penalti s missed prrect sy	a ies such d or mbols 0 Scorir	Satellite	Springhee -Wilmington	-TF CONTROLLED CONTROL	nden Group Carte		flight overlaid actual route
Planned: 12.3 Actual 12.9 Submit Fuel Penalty renalty Dat Misc. a: Submit Construction Turnpoint Penalty Points:	24.99 Penalti s missed prrect sy	a ies such d or rmbols 0 Scorir Timir	Satellite	spinotrete wilmonotor	- To - To - Sterroonal	nden Group Carte	bbus transference Leurebuie 1010 0	flight overlaid actual route
Planned: 12.3 Actual 12.9 Submit Fuel Penalty Planned: 12.9 Submit	Data 24.99 Penalti s misseo prrect sy	a ies such d or rmbols 0 Scorr Timir DQ	Satellite (2) (2) (2) (2) (2) (2) (2) (2) (2) (2)	spinotrete wilmonotor	- To - To - Sterroonal	nden Group Carte	bus craite Laureballe 1010 0 0	flight overlaid
Planned: 12.3 Actual 12.9 Submit Fuel Penalty Penalty Dat Misc. a: Submit Contemporal Penalty Points: Disqualification	24.99 Penalti s missed prrect sy	a ies such d or mbols DQ ,	Satellite	spinotrete wilmonotor	- To - To - Sterroonal	nden Group Carte	bbus transference Leurebuie 1010 0	flight overlaid

Help, Resources, and Errata

Need Help?

If you need any help with the NIFA Scoring System please email: scoringsystemhelp@nifa.aero

Uploading Scanned Answer Sheets

Please email a PDF file with your scanned ground test answer sheets to: remark@nifa.aero

Please be sure to be specific about what region you are sending and what test you are sending.

Errata

For any errors in this document, please email erich.hess@nifa.aero

This section will be expanded and improved as time permits.