



# 2022 AEROSPACE MAINTENANCE COMPETITION



PRESENTED BY  
**Snap-on**  
BOOTH 100

# WELCOME LETTER

## We missed you.

In the past three years, we missed seeing you focusing your efforts on the task at hand. We missed seeing you high-five teammates when you knew you nailed the event in record time. We missed seeing you share the camaraderie of knowledge, skills and integrity with your peers from around the world.

It has been three long years since we've all been able to come together and applaud our profession. But we're back, and thrilled you are able to join us here in Dallas this week resuming a celebration that shines a bright spotlight on you — welcome back to the **2022 Aerospace Maintenance Competition Presented by Snap-on!**

Just making it to Dallas puts you in elite company. You were hand-picked for a reason to be here; you are the best of the best, and you should take great pride this week in representing your company, school or military branch. We're glad you are here and look forward to seeing what you and your teammates can accomplish!

This year's field is impressive to say the least. We have 74 teams competing in 26 events that will challenge every aspect of your aviation maintenance aptitude. Competitors will find a handful of new events facing them this year, and that is by design. The aviation industry is constantly evolving and, as technicians, we need to stay abreast of the latest techniques to keep aircraft flying safe.

The teams that successfully navigate these challenges and emerge victorious in their respective divisions of Commercial Aviation, School, Military and MRO/OEM will take home the satisfaction in knowing they bested the top technicians the industry has to offer!

There is also some valued hardware that you can take home, most notably the grand prize in aviation maintenance – the William F. "Bill" O'Brien Award for Excellence in Aircraft Maintenance. Presented by Snap-on, this coveted trophy awarded to the team that earns the overall winning score, signifies the highest standard of excellence in aviation maintenance. The winning team receives the honor of displaying the 5-foot-tall traveling trophy in their facility for a year.

Putting on such a world-class event like the AMC would not be possible without the support and dedication of sponsors and volunteers alike. Snap-on alone sponsors the O'Brien award, supplies tools for the events, and contributes more than \$75,000 in tools and equipment as prizes to top finishers this week. Their commitment and leadership to the AMC is

truly invaluable. Along with Snap-on, our two other Platinum-level sponsors are American Airlines and Pratt & Whitney. In addition, we have Gold, Bronze, Corporate, Event and Prize & Product sponsors listed in the back of this program. These companies have been with us a long time, and we appreciate their support of the AMC.

We have a huge contingent of volunteers who each year donate their time and resources to make AMC a successful event for everyone. They are too numerous to individually recognize here, but as you interact with them this week, please take a moment to thank them for being here. Our volunteers are truly the unsung heroes of the AMC, and we are grateful for their continued support.

The AMC is a great venue to network and share information. Despite our different uniforms, we all have a vested interest in making our industry stronger. And we do that by working together, sharing knowledge and insights, and helping to mentor the student participants who are here.

We are so happy you have made the commitment to be here in Dallas this week. Be sure to tell your family and friends to log into the AMC livestream ([www.mroamc.live](http://www.mroamc.live)) to see you compete.

Best of luck to all teams, and remember, have fun!

### The Honorable John Goglia

President, Aerospace Maintenance Council

### Ken MacTiernan

Chairman, Aerospace Maintenance Competition



# SCHEDULE OF EVENTS

MONDAY, APRIL 25, 2022	
8:00 AM to 12:00 PM	<b>Event Setup</b> Sponsors and judges only, booth 100
9:00 AM to 3:00 PM	<b>American Airlines Tour</b> Students & military only, RSVP required
2:00 PM to 3:00 PM	<b>Judge Briefing</b> Judges only, room C155-156
3:00 PM to 4:30 PM	<b>Competitor Orientation</b> Competitions, coaches and judges only, room C155-156
TUESDAY, APRIL 26, 2022	
8:30 AM to 9:30 AM	<b>Competitor Walk-Through</b> Booth 100
9:30 AM to 5:15 PM	<b>COMPETITION</b>
WEDNESDAY, APRIL 27, 2022	
8:30 AM to 4:35 PM	<b>COMPETITION</b>
THURSDAY, APRIL 28, 2022	
9:00 AM to 12:00 PM	<b>Award Ceremony</b> Open to the public, room D3-4

*Please note: only AMC competitors, coaches, judges and sponsors will have early access to the show floor. AMC visitors and guests will only have access when the show floor is open to the public.*

Livestreaming provided by  **AIREXPRESS** at <https://mroamc.live/>

Check your scores (teams and judges) at [amc-scoring.com](https://amc-scoring.com)

 @amcaero  @amcaero  @Aerospace Maintenance Competition  #amcaero

 TEAM@AEROSPACECOMPETITION.COM  888-503-2914  AEROSPACECOMPETITION.COM

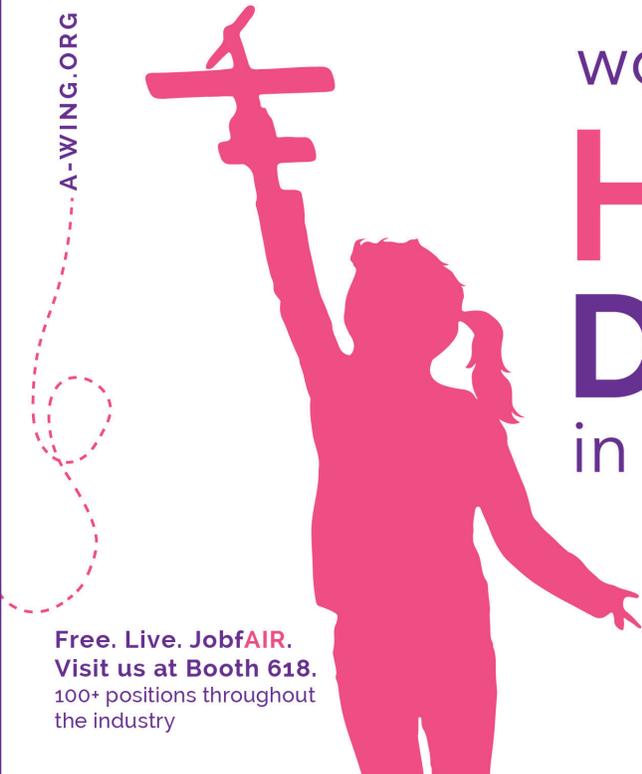
# EVENT GROUPING

Teams are responsible for assigning individual competitors to each event. Teams will compete in simultaneous events according to the following event group schedule:

GROUP	EVENT	MEMBERS REQUIRED
1	#1 Pratt & Whitney Clearance Control Valve and Bleed Valve Solenoid Tests	1
	#2 8Tree & Alaska Airlines Airframe Damage Inspection	2
	#3 Alaska Airlines External Power Receptacle	2
2	#4 Barfield Air Data Testing	2
	#6 Barfield Handheld Bond Meter Test	2
	#9 Moeller Aerospace Click-Loc® Challenge - We Won't Back Off	1
3	#5 Barfield Antenna Testing	2
	#7 Click Bond XR Process Optimization	2
	#11 Perfect Point E-Drill Fastener Removal	1
4	#10 NBAA & StandardAero Engine Fan Blade Removal	3
	#12 Michelin Tires Aircraft Tire Inspection	2
5	#13 UPS Safety Wiring	1
	#15 American Airlines APU Burner Can	2
	#17 Daniels Manufacturing Corporation Electrical Troubleshooting	2
6	#14 American Airlines Pedestal	1
	#22 United Airlines Fuel Tank Entry Precautions	2
	#23 United Airlines Cable Rigging	2
7	#16 drbillj.com and Northrop Rice Human Factors Exam	1
	#24 Nida Corporation Power Troubleshooting	2
	#25 U.S. Air Force Flex Fluid Lines	2
8	#18 Daniels Manufacturing Corporation Safe-T-Cable®	1
	#26 Eastern Florida State Simulated Spacecraft Vacuum Loading	2
	#27 FedEx Express PDU Removal and Installation	2
9	#19 PPG Aerospace Transparencies	2
	#20 PPG Aerospace Virtual Reality Paint Booth	1
	#21 PPG Aerospace Wing Sealant	2

The following teams are confirmed to participate in the 2022 event. Each team is assigned a team number that will be used as an identifier on the event schedule and score sheets.

NO.	TEAM NAME	CATEGORY
1	Cape Cod Community College	School
2	FedEx Express - INDY	MRO/OEM
3	Del Mar College	School
4	Eastern Florida State College	School
5	Embry-Riddle University- Team 1	School
6	Pittsburgh Institute of Aeronautics - Hagerstown	School
7	Mohawk Valley Community College	School



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# TEAMS

NO.	TEAM NAME	CATEGORY
8	Spartan College of Aeronautics & Technology - Tulsa	School
9	MIAT College of Technology	School
10	Lewis University	School
11	Pittsburgh Institute of Aeronautics - Pittsburgh	School
12	Tulsa Tech - High School Aerospace Academy	School
13	Liberty University	School
14	Pittsburgh Institute of Aeronautics - Myrtle Beach	School
15	Salt Lake Community College	School
16	Embry-Riddle University- Team 2	School
17	Tarrant County College	School
18	George T. Baker Aviation Technical College	School
19	Utah State University	School
20	Portland Community College	School
21	Tulsa Tech - Adult Students	School
22	Indian Hills Community College	School
23	Middle Tennessee State University	School
24	Aviation Institute of Maintenance - Dallas Team 2	School
25	Pittsburgh Institute of Aeronautics - Youngstown	School
26	American Airlines - TUL	MRO/OEM
27	Pratt & Whitney - Team 2	MRO/OEM

NO.	TEAM NAME	CATEGORY
28	United Airlines - MRO	MRO/OEM
29	Pratt & Whitney - Team 1	MRO/OEM
30	Leonardo DRS Advanced Program Support	MRO/OEM
31	ST Engineering	MRO/OEM
32	HAECO Americas	MRO/OEM
33	American Airlines - DWH	MRO/OEM
34	West Los Angeles College	School
35	Aviation Institute of Maintenance - Dallas Team 1	School
36	WSU Tech	School
37	Southwest Airlines	Commercial
38	Royal Canadian Air Force - 1 Air Maintenance Squadron	Military
39	Alaska Airlines - ANC	Commercial
40	United States Air Force - 354 AMXS Grizzlies	Military
41	United Airlines - Chix Fix	Commercial
42	United States Coast Guard - CG-41 Aeronautical Engineering Team	Military
43	UPS	Commercial
44	Delta Airlines DTW Line Maintenance	Commercial
45	United States Air Force - WR-ALC/AMXG/560 AMXS	Military
46	United States Air Force - 76 AMXG/EDMX	Military
47	United States Air Force - McChord	Military

# TEAMS

NO.	TEAM NAME	CATEGORY
48	United Airlines - Line	Commercial
49	Alaska Airlines - SEA	Commercial
50	United States Air Force - Creech AFB	Military
51	United States Air Force - 58 MXG Kirtland Air Force Base	Military
52	American Airlines - MOC	Commercial
53	American Airlines - WIT	Commercial
54	Elevate Aviation	Commercial
55	American Airlines - ORD	Commercial
56	American Airlines - LAX	Commercial
57	United States Air Force - 86 MXG	Military
58	Canadian Forces School of Aerospace Technology and Engineering	Military
59	FedEx Express - LAX	Commercial
60	Royal Canadian Air Force - 12 Air Maintenance Squadron	Military
61	United States Air Force - 402 EDMX	Military
62	United States Air Force - 412 MXG/Edwards AFB	Military
63	Horizon Air	Commercial
64	United States Air Force - 437th and 315th MXG Maintenance Team	Military
65	United States Air Force - 735th AMC, JB Pearl Harbor	Military
66	United States Air Force - 309 AMXG/EDMX	Military
67	JetBlue	Commercial

NO.	TEAM NAME	CATEGORY
68	Spirit Airlines	Commercial
69	Azul Brazilian Airlines	Commercial
70	United States Air Force - 727 SOAMXS	Military
71	Royal Canadian Air Force - 442 and 418 Transport & Rescue Squadrons	Military
72	Royal Canadian Air Force - 435 Transport and Rescue Squadron	Military
73	Mesa Airlines, Inc.	Commercial
74	United States Army - 128th Aviation Brigade	Military

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# EVENT SCHEDULE

The competition consists of 15-minute stages. Two teams will complete each event group simultaneously, as indicated by the team numbers assigned in each stage and group in the schedule below.

## TUESDAY, APRIL 26

STAGE NO.	1	2	3	4	5	6	7	8	9		
Start Time	9:30 AM	9:50 AM	10:10 AM	10:30 AM	10:50 AM	11:10 AM	11:30 AM	11:50 AM	12:10 PM	1:00 PM	1:20 PM
End Time	9:45 AM	10:05 AM	10:25 AM	10:45 AM	11:05 AM	11:25 AM	11:45 AM	12:05 PM	12:55 PM	1:15 PM	1:35 PM
Group 1: Events 1, 2, 3	1 & 38	10 & 47	19 & 56	28 & 65	BREAK	37 & 74	9 & 46	18 & 55	LUNCH BREAK	27 & 64	36 & 73
Group 2: Events 4, 6, 9	2 & 39	11 & 48	20 & 57	29 & 66		1 & 38	10 & 47	19 & 56		28 & 65	37 & 74
Group 3: Events 5, 7, 11	3 & 40	12 & 49	21 & 58	30 & 67		2 & 39	11 & 48	20 & 57		29 & 66	1 & 38
Group 4: Events 10, 12	4 & 41	13 & 50	22 & 59	31 & 68		3 & 40	12 & 49	21 & 58		30 & 67	2 & 39
Group 5: Events 13, 15, 17	5 & 42	14 & 51	23 & 60	32 & 69		4 & 41	13 & 50	22 & 59		31 & 68	3 & 40
Group 6: Events 14, 22, 23	6 & 43	15 & 52	24 & 61	33 & 70		5 & 42	14 & 51	23 & 60		32 & 69	4 & 41
Group 7: Event 16, 24, 25	7 & 44	16 & 53	25 & 62	34 & 71		6 & 43	15 & 52	24 & 61		33 & 70	5 & 42
Group 8: Events 18, 26, 27	8 & 45	17 & 54	26 & 63	35 & 72		7 & 44	16 & 53	25 & 62		34 & 71	6 & 43
Group 9: Events 19, 20, 21	9 & 46	18 & 55	27 & 64	36 & 73		8 & 45	17 & 54	26 & 63		35 & 72	7 & 44

STAGE NO.	10	11	12	13	14	15	16	17	18	19	
Start Time	1:40 PM	2:00 PM	2:20 PM	2:40 PM	3:00 PM	3:20 PM	3:40 PM	4:00 PM	4:20 PM	4:40 PM	5:00 PM
End Time	1:55 PM	2:15 PM	2:35 PM	2:55 PM	3:15 PM	3:35 PM	3:55 PM	4:15 PM	4:35 PM	4:55 PM	5:15 PM
Group 1: Events 1, 2, 3	8 & 45	17 & 54	26 & 63	BREAK	35 & 72	7 & 44	16 & 53	25 & 62	34 & 71	6 & 43	15 & 52
Group 2: Events 4, 6, 9	9 & 46	18 & 55	27 & 64		36 & 73	8 & 45	17 & 54	26 & 63	35 & 72	7 & 44	16 & 53
Group 3: Events 5, 7, 11	10 & 47	19 & 56	28 & 65		37 & 74	9 & 46	18 & 55	27 & 64	36 & 73	8 & 45	17 & 54
Group 4: Events 10, 12	11 & 48	20 & 57	29 & 66		1 & 38	10 & 47	19 & 56	28 & 65	37 & 74	9 & 46	18 & 55
Group 5: Events 13, 15, 17	12 & 49	21 & 58	30 & 67		2 & 39	11 & 48	20 & 57	29 & 66	1 & 38	10 & 47	19 & 56
Group 6: Events 14, 22, 23	13 & 50	22 & 59	31 & 68		3 & 40	12 & 49	21 & 58	30 & 67	2 & 39	11 & 48	20 & 57
Group 7: Event 16, 24, 25	14 & 51	23 & 60	32 & 69		4 & 41	13 & 50	22 & 59	31 & 68	3 & 40	12 & 49	21 & 58
Group 8: Events 18, 26, 27	15 & 52	24 & 61	33 & 70		5 & 42	14 & 51	23 & 60	32 & 69	4 & 41	13 & 50	22 & 59
Group 9: Events 19, 20, 21	16 & 53	25 & 62	34 & 71		6 & 43	15 & 52	24 & 61	33 & 70	5 & 42	14 & 51	23 & 60

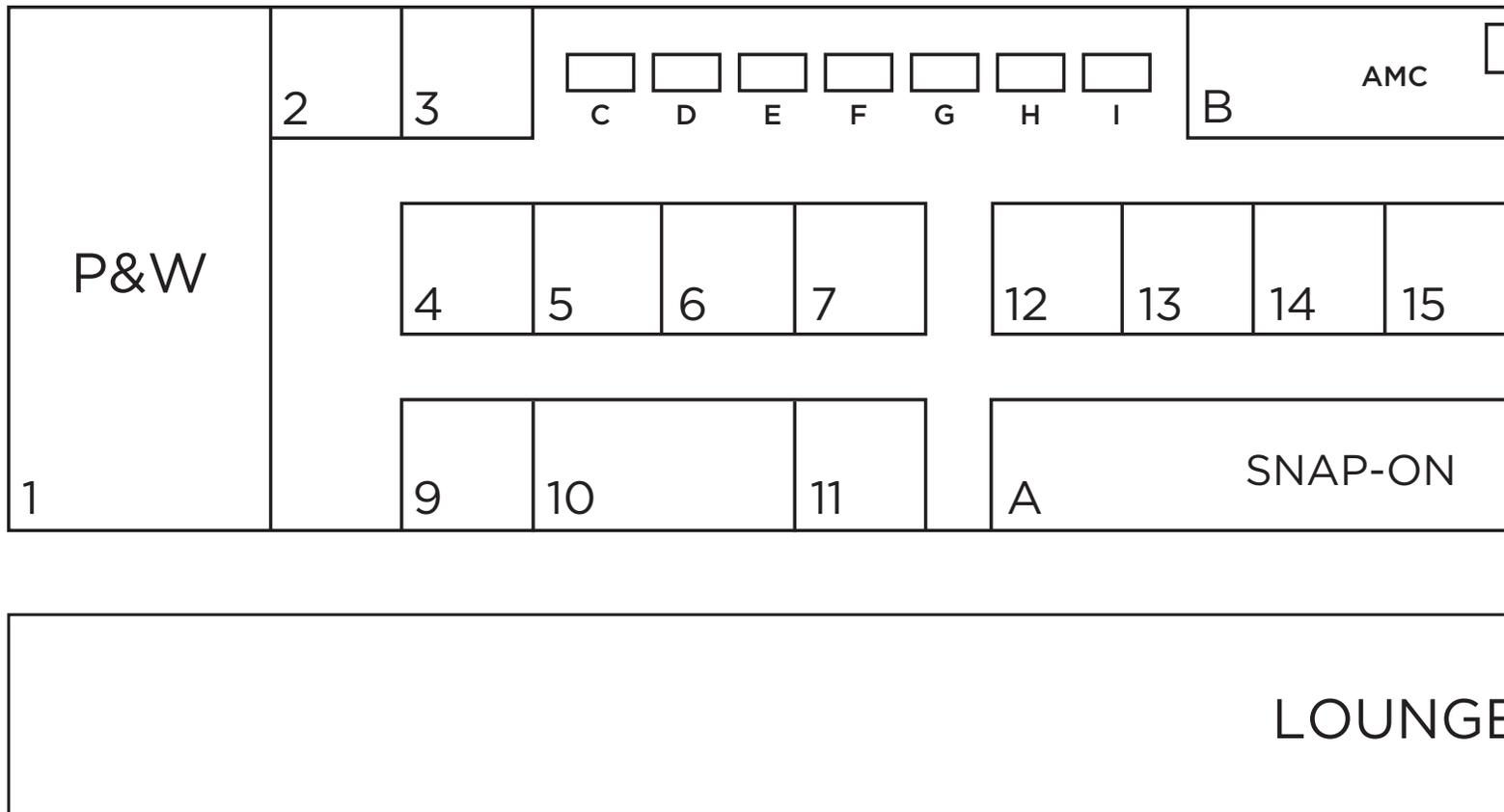
# EVENT SCHEDULE

## WEDNESDAY, APRIL 27

STAGE NO.	20	21	22	23	24	25	26	27	28	29	
Start Time	8:30 AM	8:50 AM	9:10 AM	9:30 AM	9:50 AM	10:10 AM	10:30 AM	10:50 AM	11:10 AM	11:30 AM	11:50 AM
End Time	8:45 AM	9:05 AM	9:25 AM	9:45 AM	10:05 AM	10:25 AM	10:45 AM	11:05 AM	11:25 AM	11:45 AM	12:05 PM
Group 1: Events 1, 2, 3	24 & 61	33 & 70	5 & 42	14 & 51	23 & 60	32 & 69	BREAK	4 & 41	13 & 50	22 & 59	31 & 68
Group 2: Events 4, 6, 9	25 & 62	34 & 71	6 & 43	15 & 52	24 & 61	33 & 70		5 & 42	14 & 51	23 & 60	32 & 69
Group 3: Events 5, 7, 11	26 & 63	35 & 72	7 & 44	16 & 53	25 & 62	34 & 71		6 & 43	15 & 52	24 & 61	33 & 70
Group 4: Events 10, 12	27 & 64	36 & 73	8 & 45	17 & 54	26 & 63	35 & 72		7 & 44	16 & 53	25 & 62	34 & 71
Group 5: Events 13, 15, 17	28 & 65	37 & 74	9 & 46	18 & 55	27 & 64	36 & 73		8 & 45	17 & 54	26 & 63	35 & 72
Group 6: Events 14, 22, 23	29 & 66	1 & 38	10 & 47	19 & 56	28 & 65	37 & 74		9 & 46	18 & 55	27 & 64	36 & 73
Group 7: Event 16, 24, 25	30 & 67	2 & 39	11 & 48	20 & 57	29 & 66	1 & 38		10 & 47	19 & 56	28 & 65	37 & 74
Group 8: Events 18, 26, 27	31 & 68	3 & 40	12 & 49	21 & 58	30 & 67	2 & 39		11 & 48	20 & 57	29 & 66	1 & 38
Group 9: Events 19, 20, 21	32 & 69	4 & 41	13 & 50	22 & 59	31 & 68	3 & 40		12 & 49	21 & 58	30 & 67	2 & 39

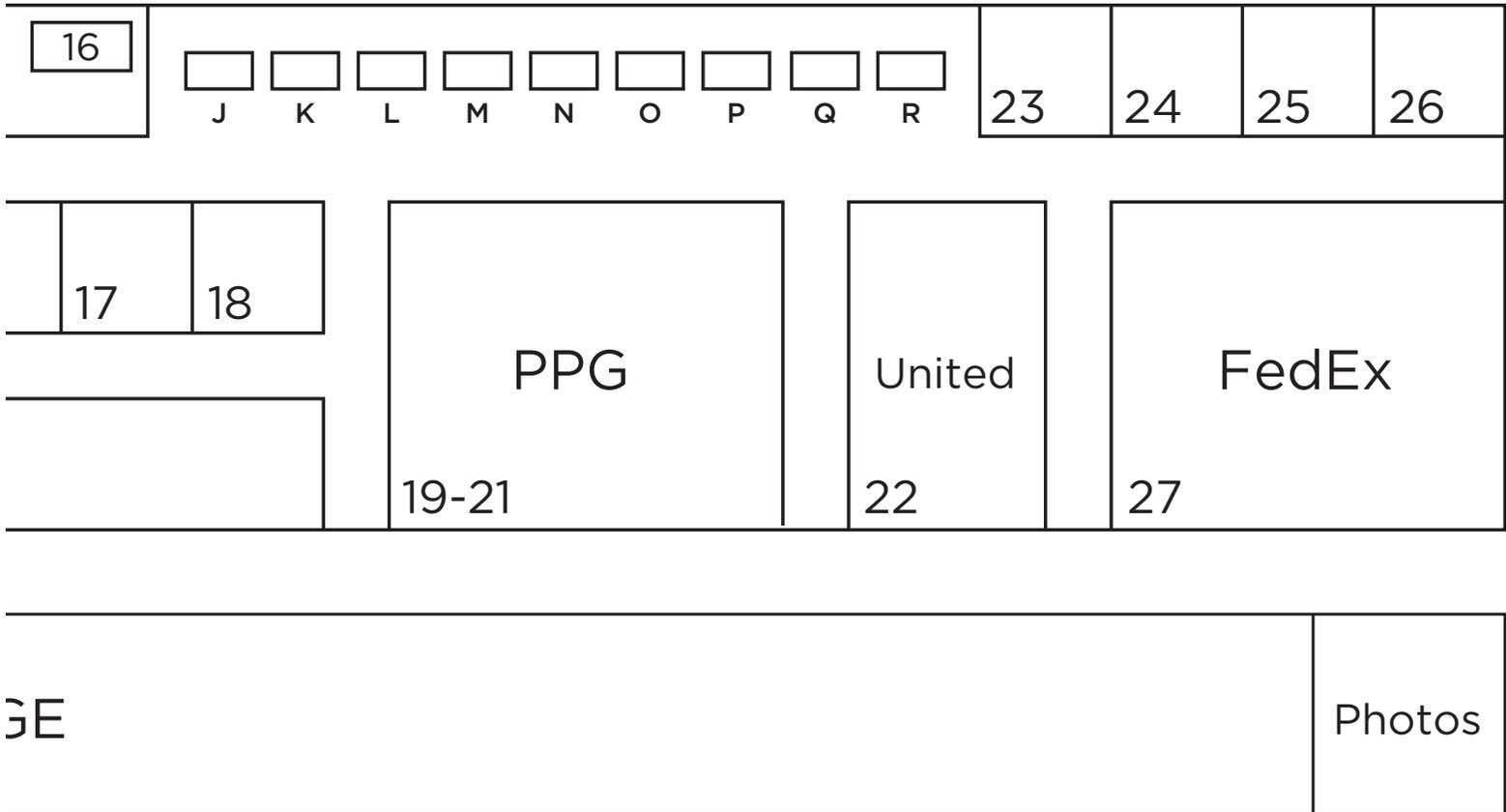
STAGE NO.	30	31	32	33	34	35	36	37	
Start Time	12:10 PM	1:00 PM	1:20 PM	1:40 PM	2:00 PM	2:20 PM	2:40 PM	3:00 PM	3:20 PM
End Time	12:55 PM	1:15 PM	1:35 PM	1:55 PM	2:15 PM	2:35 PM	2:55 PM	3:15 PM	3:35 PM
Group 1: Events 1, 2, 3	LUNCH BREAK	3 & 40	12 & 49	21 & 58	30 & 67	2 & 39	11 & 48	20 & 57	29 & 66
Group 2: Events 4, 6, 9		4 & 41	13 & 50	22 & 59	31 & 68	3 & 40	12 & 49	21 & 58	30 & 67
Group 3: Events 5, 7, 11		5 & 42	14 & 51	23 & 60	32 & 69	4 & 41	13 & 50	22 & 59	31 & 68
Group 4: Events 10, 12		6 & 43	15 & 52	24 & 61	33 & 70	5 & 42	14 & 51	23 & 60	32 & 69
Group 5: Events 13, 15, 17		7 & 44	16 & 53	25 & 62	34 & 71	6 & 43	15 & 52	24 & 61	33 & 70
Group 6: Events 14, 22, 23		8 & 45	17 & 54	26 & 63	35 & 72	7 & 44	16 & 53	25 & 62	34 & 71
Group 7: Event 16, 24, 25		9 & 46	18 & 55	27 & 64	36 & 73	8 & 45	17 & 54	26 & 63	35 & 72
Group 8: Events 18, 26, 27		10 & 47	19 & 56	28 & 65	37 & 74	9 & 46	18 & 55	27 & 64	36 & 73
Group 9: Events 19, 20, 21		11 & 48	20 & 57	29 & 66	1 & 38	10 & 47	19 & 56	28 & 65	37 & 74

# EVENT FLOOR MAP



- |  |  |
|--|--|
| <p><b>1</b> Pratt &amp; Whitney Clearance Control Valve and Bleed Valve Solenoid Tests</p> <p><b>2</b> 8Tree &amp; Alaska Airlines Airframe Damage Inspection</p> <p><b>3</b> Alaska Airlines External Power Receptacle</p> <p><b>4</b> Barfield Air Data Testing</p> <p><b>5</b> Barfield Antenna Testing</p> <p><b>6</b> Barfield Handheld Bond Meter Test</p> <p><b>7</b> Click Bond AR Relay Race</p> <p><b>9</b> Moeller Aerospace Click-Loc® Challenge — We Won't Back Off</p> <p><b>10</b> NBAA &amp; StandardAero Engine Fan Blade Removal</p> <p><b>11</b> Perfect Point E-Drill Fastener Removal</p> | <p><b>12</b> Michelin Tires Aircraft Tire Inspection</p> <p><b>13</b> UPS Safety Wiring</p> <p><b>14</b> American Airlines Pedestal</p> <p><b>15</b> American Airlines APU Burner Can</p> <p><b>16</b> drbillj.com and Northrop Rice Human Factors Exam</p> <p><b>17</b> Daniels Manufacturing Corporation Electrical Troubleshooting</p> <p><b>18</b> Daniels Manufacturing Corporation Safe-T-Cable®</p> <p><b>19</b> PPG Aerospace Transparencies</p> <p><b>20</b> PPG Aerospace Virtual Reality Paint Booth</p> <p><b>21</b> PPG Aerospace Wing Sealant</p> <p><b>22</b> United Airlines Fuel Tank Entry Precautions</p> |
|--|--|

# EVENT FLOOR MAP



- 23** United Airlines Cable Rigging
- 24** Nida Corporation Power Troubleshooting
- 25** U.S. Air Force Flex Fluid Lines
- 26** Eastern Florida State Simulated Spacecraft Vacuum Loading
- 27** FedEx Express PDU Removal and Installation

- A** Snap-on
- B** Aerospace Maintenance Council
- C** Alaska Airlines
- D** Aircraft Mechanics Fraternal Association
- E** Pratt & Whitney
- F** FEAM Maintenance/Engineering
- G** SkyWest Airlines

- H** Air Force Civilian Service, 412th Maintenance Group, Edwards AFB
- I** TechForce Foundation
- J** Northrop Grumman
- K** JetBlue
- L** International Association of Machinists and Aerospace Workers, Air Transport District 142
- M** American Airlines
- N** PPG Aerospace
- O** FedEx
- P** AWING
- Q** United Airlines
- R** Teamsters



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EVENT



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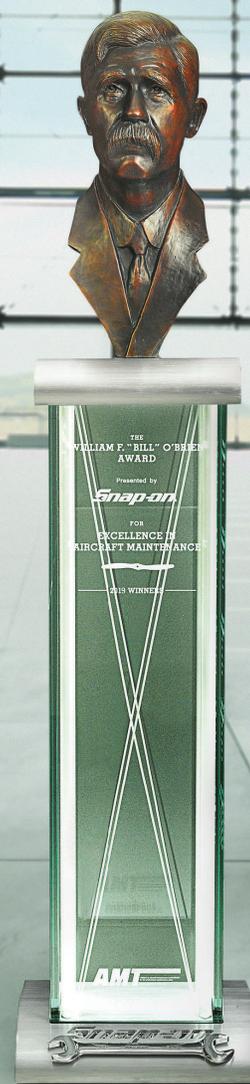


Support the 2023 competition in Atlanta, April 18-20.  
 More info at [www.aerospacecompetition.com](http://www.aerospacecompetition.com).



# THE ROAR OF THE ENGINE IS THE ONLY APPLAUSE THEY NEED.

Hard work is its own reward. But, hey—a little competition never hurts. And the industry's best AMTs will showcase their skills in the Aerospace Maintenance Competition Presented by Snap-on at MRO Americas 2022 in Dallas. Stop by Booth 100 to see speed, precision and accuracy at its finest.



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