

NAVFAC  
AIRFIELD FACILITIES PLANNING AND DESIGN CRITERIA TRAINING

**COURSE SCHEDULE**

<b>DAY 1 (5 Feb 2024)</b>			
<b>AIRFIELD PLANNING AND DESIGN</b>			
<b>Section</b>	<b>Time</b>	<b>Title</b>	<b>Content</b>
	0830-0845	Doors Open	<ul style="list-style-type: none"> <li>• Sign-in</li> </ul>
1	0845-0900	Welcome, Schedule Review, Course Logistics	<ul style="list-style-type: none"> <li>• Introductions – instructors and students</li> <li>• Facilities (Exits, Bathrooms, Wi-Fi, etc.)</li> <li>• Syllabus</li> <li>• Breaks/Snacks/Coffee, etc.</li> </ul>
2	0900-1000	Course Purpose – NAVFAC Perspective	<ul style="list-style-type: none"> <li>• Course Development &amp; Goals</li> <li>• Criteria Program Overview</li> <li>• UFC Criteria Exemption Processing</li> <li>• Airfield Safety Waiver Processing</li> <li>• Exemption/Waiver Examples Discussion</li> </ul>
	1000-1015	<b>BREAK</b>	
3	1015-1115	Airfield Planning	<ul style="list-style-type: none"> <li>• UFC 2-000-05N</li> <li>• UFC 3-260-01 – Chapters 1 and 2 <ul style="list-style-type: none"> <li>○ Existing vs New Facilities</li> <li>○ CONUS vs OCONUS Criteria</li> <li>○ Planning Considerations</li> <li>○ Siting Approval Process</li> <li>○ Air Traffic Control Tower Siting</li> </ul> </li> </ul>
4	1115-1200	Fixed-Wing Runways	<ul style="list-style-type: none"> <li>• UFC 3-260-01 – Chapter 3</li> <li>• Classification</li> </ul>
	<b>1200-1300</b>	<b>LUNCH</b>	
4	1300-1330	Fixed-Wing Runways	<ul style="list-style-type: none"> <li>• Geometry and Design Considerations <ul style="list-style-type: none"> <li>○ Orientation</li> <li>○ Dimensions</li> </ul> </li> <li>• Imaginary Surfaces, APZs and Clear Zones</li> </ul>
5	1330-1415	Rotary Wing Helipads and other Facilities	<ul style="list-style-type: none"> <li>• UFC 3-260-01 – Chapter 4</li> <li>• Types of Rotary Wing Facilities</li> <li>• Geometry and Design Considerations</li> <li>• Imaginary Surfaces, APZs and Clear Zones</li> </ul>
6	1415-1430	Taxiways, Aprons and Other Facilities	<ul style="list-style-type: none"> <li>• UFC 3-260-01 – Chapters 5 and 6</li> <li>• Taxiway Types and Geometry</li> </ul>
	1430-1445	<b>BREAK</b>	
6	1445-1600	Taxiways, Aprons and Other Facilities (cont'd)	<ul style="list-style-type: none"> <li>• Apron Types and Nomenclature Special Apron Facilities <ul style="list-style-type: none"> <li>○ Power Check Pad</li> <li>○ Arm/De-arm Pad</li> <li>○ Compass Calibration Pad</li> <li>○ Wash Racks</li> </ul> </li> </ul>
	<b>1600</b>	<b>End of Day 1</b>	<ul style="list-style-type: none"> <li>• <b>Speakers to be available for questions</b></li> </ul>

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**COURSE SCHEDULE**

<b>DAY 2 (6 FEB 2024)</b>			
<b>AIRFIELD PLANNING AND DESIGN</b>			
<b>Section</b>	<b>Time</b>	<b>Title</b>	<b>Content</b>
7	0845-0930	LZs, STOVL, and UAS Facilities	<ul style="list-style-type: none"> <li>• UFC 3-260-01 – Chapters 7, 8 and 9</li> <li>• LZs for C-130 and C-17               <ul style="list-style-type: none"> <li>○ Dimensions, Marking, Lighting</li> </ul> </li> <li>• Fixed-wing STOVL Facilities               <ul style="list-style-type: none"> <li>○ LHD, Vertical Landing Pads, FOB, OLF</li> </ul> </li> <li>• UAS Facilities</li> </ul>
8	0930-1015	Airfield Pavements Design and Evaluation	<ul style="list-style-type: none"> <li>• Pavement Design Procedures               <ul style="list-style-type: none"> <li>○ Required Design Inputs</li> <li>○ Field Investigations</li> </ul> </li> </ul>
	<b>1015-1030</b>	<b>BREAK</b>	
8	1030-1100	Airfield Pavements Design and Evaluation (cont'd)	<ul style="list-style-type: none"> <li>• Paving Materials</li> <li>• Pavement Evaluation</li> </ul>
9	1100-1200	Airfield Surface and Subsurface Drainage	<ul style="list-style-type: none"> <li>• Stormwater Drainage Design Requirements</li> <li>• Stormwater Design Considerations near Airfields</li> <li>• Subsurface Drainage systems</li> </ul>
	<b>LUNCH (1200-1300)</b>		
10	1300-1400	Airfield Markings	<ul style="list-style-type: none"> <li>• UFC 3-260-04</li> <li>• NAVAIR 51-50AAA-2</li> <li>• Joint Use Facilities and FAA Markings</li> <li>• Runways, Taxiways, Aprons, Special Facilities</li> </ul>
11	1400-1430	Airfield Lighting & NAVAIDs	<ul style="list-style-type: none"> <li>• NAVAIR 51-50AAA-2</li> <li>• UFC 3-535-02</li> <li>• Runways, Taxiways, Special Facilities</li> </ul>
	<b>1430-1445</b>	<b>BREAK</b>	
11	1445-1515	Airfield Lighting & NAVAIDs (cont'd)	<ul style="list-style-type: none"> <li>• NAVAIR 51-50AAA-2</li> <li>• UFC 3-535-02</li> <li>• Runways, Taxiways, Special Facilities</li> </ul>
12	1515-1600	Questions and Examples	<ul style="list-style-type: none"> <li>• Airfield Design Best Practices</li> </ul>
	<b>1600</b>	<b>End of Day 2</b>	<ul style="list-style-type: none"> <li>• <b>Speakers to be available for questions</b></li> </ul>

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**COURSE SCHEDULE**

<b>DAY 3 (7 FEB 24)</b>			
<b>AIRCRAFT HANGARS AND OTHER AIRFIELD STRUCTURES</b>			
<b>Section</b>	<b>Time</b>	<b>Title</b>	<b>Content</b>
	0830-0845	Doors Open	<ul style="list-style-type: none"> <li>• Setup</li> </ul>
1a	0845-0915 (0:30)	Welcome, Schedule Review, Course Logistics	<ul style="list-style-type: none"> <li>• Introduction</li> <li>• Facilities</li> <li>• Syllabus / Agenda</li> </ul>
1b	0915-1045 (1:30)	Aircraft Maintenance Hangars (Planning)	<ul style="list-style-type: none"> <li>• UFC 4-211-01 (and UFC 2-000-05N) <ul style="list-style-type: none"> <li>○ Applicability</li> <li>○ Planning and Layout</li> </ul> </li> </ul>
	1045-1100	<b>BREAK</b>	
2	1100-1200 (1:00)	Aircraft Maintenance Hangars (Design)	<ul style="list-style-type: none"> <li>• UFC 4-211-01 <ul style="list-style-type: none"> <li>○ Design Requirements for Navy Hangars – with select comparisons to Air Force</li> </ul> </li> </ul>
	<b>1200-1300</b>	<b>LUNCH</b>	
2 (cont)	1330-1445 (1:15)	Aircraft Maintenance Hangars (Design)	<ul style="list-style-type: none"> <li>• UFC 4-211-01 <ul style="list-style-type: none"> <li>○ Design Requirements for Navy Hangars – with select comparisons to Air Force</li> </ul> </li> </ul>
	1445-1500	<b>BREAK</b>	
2 (cont)	1500-1600 (1:00)	Aircraft Maintenance Hangars (Design)	<ul style="list-style-type: none"> <li>• UFC 4-211-01 <ul style="list-style-type: none"> <li>○ Design Requirements for Navy Hangars – with select comparisons to Air Force</li> </ul> </li> </ul>
	<b>1600</b>	<b>End of Day 3</b>	<ul style="list-style-type: none"> <li>• <b>Speakers to be available for questions</b></li> </ul>

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**COURSE SCHEDULE**

<b>DAY 4 (8 FEB 24)</b>			
<b>AIRCRAFT HANGARS AND OTHER AIRFIELD STRUCTURES</b>			
<b>Section</b>	<b>Time</b>	<b>Title</b>	<b>Content</b>
	0830-0845	Doors Open	<ul style="list-style-type: none"> <li>• Setup</li> </ul>
2 (cont)	0845-0930 (0:45)	Aircraft Maintenance Hangars (Design)	<ul style="list-style-type: none"> <li>• UFC 4-211-01               <ul style="list-style-type: none"> <li>○ Design Requirements for Navy Hangars – with select comparisons to Air Force</li> </ul> </li> </ul>
3	0930-1045 (1:15)	Aircraft Maintenance Hangar (Hangar Doors)	<ul style="list-style-type: none"> <li>• UFC 4-211-01 (continued)               <ul style="list-style-type: none"> <li>○ Hangar Door Selection, Requirements</li> <li>○ UFGS 08 34 16.10 Steel Sliding Hangar Doors</li> <li>○ UFGS 08 34.16.20 Vertical Lift Fabric Doors</li> </ul> </li> </ul>
	1045-1100	BREAK	
4	1100-1130 (0:30)	Aircraft Corrosion Control and Paint Facilities	<ul style="list-style-type: none"> <li>• UFC 4-211-02 and UFGS 08 34 16               <ul style="list-style-type: none"> <li>○ Applicability</li> <li>○ Facility Function, Layout and Adjacencies</li> <li>○ System Function and Requirements</li> <li>○ Best Practices</li> <li>○ UFGS 08 34.16 Corrosion Control Hangar Doors</li> </ul> </li> </ul>
6 (out of order)	1130-1200 (0:30)	Air Traffic Control and Air Operations Facilities	<ul style="list-style-type: none"> <li>• UFC 4-133-01 and UFGS 08 88 58               <ul style="list-style-type: none"> <li>○ Applicability</li> <li>○ Planning and Layout</li> <li>○ Design Requirements</li> <li>○ Best Practices</li> </ul> </li> </ul>
	<b>LUNCH (1200-1300)</b>		
5	1300-1400 (1:00)	Aircraft Protective Equipment	<ul style="list-style-type: none"> <li>• UFGS 13 31 33 Frame Supported Membrane Structures For Protection Of Aircraft</li> </ul>
7	1400-1430 (0:30)	Navy Engine Test Cells	<ul style="list-style-type: none"> <li>• UFC 4-212-01N               <ul style="list-style-type: none"> <li>○ Types of Test Cells</li> <li>○ Standard Designs and Drawings</li> </ul> </li> </ul>
	1430-1445	BREAK	
8	1445-1600	Key Take-Aways, Lessons Learned, Closing Thoughts, Questions & Feedback	<ul style="list-style-type: none"> <li>• Hangar Maintenance / Service Contracts</li> <li>• Waivers and Exemptions</li> <li>• Closing Thoughts</li> <li>• Final Questions</li> <li>• Feedback Request</li> </ul>