Island Club Conference Room
Naval Air Station North Island, CA

NAVFAC
AIRFIELD FACILITIES PLANNING AND DESIGN CRITERIA TRAINING

COURSE SCHEDULE

DAY 1			
AIRFIELD PLANNING AND DESIGN			
Section	**Time**	**Title**	**Content**
	0730-0800	Doors Open	• Sign-in
1	0800-0830	Welcome, Schedule Review, Course Logistics	• Introductions – instructors and students • Facilities (Exits, Bathrooms, Wi-Fi, etc.) • Syllabus • Breaks/Snacks/Coffee, etc.
2	0830-0915	Course Purpose – NAVFAC Perspective	• Course Development & Goals • Criteria Program Overview • UFC Criteria Exemption Processing • Airfield Safety Waiver Processing • Exemption/Waiver Examples Discussion
3	0915-0945	Airfield Planning	• UFC 2-000-05N
	0945-1000	BREAK	
3	1000-1100	Airfield Planning (cont'd)	• UFC 3-260-01 – Chapters 1 and 2 o Existing vs New Facilities o CONUS vs OCONUS Criteria o Planning Considerations o Siting Approval Process o Air Traffic Control Tower Siting
4	1100-1200	Fixed-Wing Runways	• UFC 3-260-01 – Chapter 3 • Classification
	1200-1300	**LUNCH**	
4	1300-1315	Fixed-Wing Runways	• Geometry and Design Considerations o Orientation o Dimensions • Imaginary Surfaces, APZs and Clear Zones
5	1315-1400	Rotary Wing Helipads and other Facilities	• UFC 3-260-01 – Chapter 4 • Types of Rotary Wing Facilities • Geometry and Design Considerations • Imaginary Surfaces, APZs and Clear Zones
6	1400-1445	Taxiways, Aprons and Other Facilities	• UFC 3-260-01 – Chapters 5 and 6 • Taxiway Types and Geometry
	1445-1500	BREAK	
6	1500-1545	Taxiways, Aprons and Other Facilities (cont'd)	• Apron Types and Nomenclature Special Apron Facilities o Power Check Pad o Arm/De-arm Pad o Compass Calibration Pad o Wash Racks
7	1545-1630	LZs, STOVL, and UAS Facilities	• UFC 3-260-01 – Chapters 7, 8 and 9 • LZs for C-130 and C-17 o Dimensions, Marking, Lighting • Fixed-wing STOVL Facilities o LHD, Vertical Landing Pads, FOB, OLF • UAS Facilities
	1630	End of Day 1	• Speakers to be available for questions

Island Club Conference Room
Naval Air Station North Island, CA

NAVFAC
AIRFIELD FACILITIES PLANNING AND DESIGN CRITERIA TRAINING

COURSE SCHEDULE

DAY 2			
AIRFIELD PLANNING AND DESIGN			
Section	**Time**	**Title**	**Content**

8	0800-0900	Airfield Pavements Design and Evaluation	• Pavement Design Procedures
			  ○ Required Design Inputs
			  ○ Field Investigations
			• Paving Materials
			• Pavement Evaluation

9	0900-1000	Airfield Surface and Subsurface Drainage	• Stormwater Drainage Design Requirements • Stormwater Design Considerations near Airfields • Subsurface Drainage systems
	1000-1015	BREAK	
10	1015-1115	Airfield Markings	• UFC 3-260-04 • NAVAIR 51-50AAA-2 • Joint Use Facilities and FAA Markings • Runways, Taxiways, Aprons, Special Facilities
11	1115-1200	Airfield Lighting & NAVAIDs	• NAVAIR 51-50AAA-2 • UFC 3-535-02 • Runways, Taxiways, Special Facilities
	LUNCH (1200-1300)		
AIRCRAFT HANGARS AND OTHER AIRFIELD STRUCTURES			
1a	1300-1315	Introduction and Transition	

1b	1315-1445	Aircraft Maintenance Hangars (Planning)	• UFC 4-211-01 (and UFC 2-000-05N)
			  ○ Applicability
			  ○ Planning and Layout

	1445-1500	BREAK	
2	1500-1600	Aircraft Maintenance Hangars (Design)	• UFC 4-211-01 ○ Design Requirements for Navy Hangars – with select comparisons to Air Force
	1600	End of Day 2	• Speakers to be available for Questions

NAVFAC
AIRFIELD FACILITIES PLANNING AND DESIGN CRITERIA TRAINING

COURSE SCHEDULE

Day 3			
AIRCRAFT HANGARS AND OTHER AIRFIELD STRUCTURES			
Section	**Time**	**Title**	**Content**
2 (cont)	0800-1000	Aircraft Maintenance Hangar (Design) - Continued	• UFC 4-211-01 ○ Design Requirements for Navy Hangars – with select comparisons to Air Force
	1000-1015	BREAK	
2 (cont)	1015-1100	Aircraft Maintenance Hangar (Design) - Continued	• UFC 4-211-01 ○ Design Requirements for Navy Hangars – with select comparisons to Air Force

3	1100-1200	Aircraft Maintenance Hangar (Hangar Doors)	• UFC 4-211-01 (continued)
			  ○ Hangar Door Selection, Requirements
			  ○ UFGS 08 34 16.10 Steel Sliding Hangar Doors
			  ○ UFGS 08 34.16.20 Vertical Lift Fabric Doors

	LUNCH (1200-1300)		

4	1300-1330	Aircraft Corrosion Control and Paint Facilities	• UFC 4-211-02 and UFGS 08 34 16
			  ○ Applicability
			  ○ Facility Function, Layout and Adjacencies
			  ○ System Function and Requirements
			  ○ Best Practices
			  ○ UFGS 08 34.16 Corrosion Control Hangar Doors

5	1330-1415	Aircraft Protective Equipment	• UFGS 13 31 33 Frame Supported Membrane Structures For Protection Of Aircraft
	1415-1430	BREAK	

6	1430-1500	Air Traffic Control and Air Operations Facilities	• UFC 4-133-01 and UFGS 08 88 58
			  ○ Applicability
			  ○ Planning and Layout
			  ○ Design Requirements
			• Best Practices

7	1500-1520	Navy Engine Test Cells	• UFC 4-212-01N
			  ○ Types of Test Cells
			  ○ Standard Designs and Drawings

8	1520-1600	Closing, Questions & Feedback	• Hangar Maintenance / Service Contracts • Waivers and Exemptions • Common Challenges / Closing Thoughts • Final Questions • Feedback Request