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## Event

# MPTS IJET NFM 4201 T-45

## Mission

**NIGHT FAMILIARIZATION SOLO  
1.3 HOURS/X**



# ORM



## NFM 4201

- **OPERATIONAL REQUIREMENTS / LIMITATIONS**
  - CREW REST/ CREW DAY / WORK WEEK
  - WARM-UP ELIGIBILITY
  - PREVIOUS FLIGHT COMPLETE?
  - IP CURRENCY
  - READ AND INITIAL
- **HUMAN FACTORS**
  - LIFE STRESSORS / EXTERNAL FACTORS/ PERSONAL PROBLEMS
  - MEDICAL STATUS
    - CREW DAY
    - CREW REST
    - NOURISHMENT
    - HYDRATION
- **HAZARDS AND CONTROLS**
  - ROUTINE
  - WEATHER
    - CURRENT OBSERVATIONS AND FORECASTS
    - CROSSWINDS
    - FUEL CONSIDERATIONS



# TTO



NFM 4201

- **WHO WILL CALL A TTO?**
- **WHAT SITUATIONS WILL THE TTO BE CALLED?**
  - **SAFETY**
  - **CONFUSION**
  - **MISUNDERSTANDING**
- **IP RESPONSIBILITIES**
  - **RECOGNIZE THE NEED FOR A TTO**
  - **EXPLANATION / INSTRUCTION AS NECESSARY**
  - **DOCUMENTATION ON ATF**
- **WHEN AND HOW WILL TRAINING RESUME?**



# SSR/DISCUSS ITEMS



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- SPECIAL SYLLABUS REQUIRMENTS:
  - NONE
- PREREQUISITES:
  - NFM 4102
- DISCUSS ITEMS:
  - NFM 4101 – 4102
    - NATOPS/SOP/EP QOD
    - SOLO BRIEF
    - WAYPOINT NAVIGATION



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# SYLLABUS NOTES

- A. EVENTS SHALL TAKE OFF NO EARLIER THAN 30 MINUTES AFTER OFFICIAL SUNSET.**
- B. ALL MANEUVERS EXCEPT LANDINGS WILL BE GRADED BY THE CHASE PILOT.**
- C. A MINIMUM OF SIX LANDINGS ARE REQUIRED FOR COMPLETION.**



# ADMIN (CARD)



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- **A/C - ATC C/S – CREW**
- **BRIEF / WALK / TAKEOFF / LAND TIMES**
- **ATC CLEARANCE / DD-175**
- **FUEL PLAN/LADDER**
- **LINE / T/O / ABORT / RPM**
- **COMM PLAN**
- **NAV PLAN/NIGHT ROUTE SURVEY**



# ADMIN



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- **LAUNCH**
  - WEATHER / NOTAMS / TFR / BASH
  - PREFLIGHT / START / TAXI
  - ENROUTE PROCEDURES
  - RADALT USAGE
  
- **RTB**
  - RECOVERY
  - DIVERTS



# CONDUCT



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- **TIMS RESUME REVIEW**
  
- **PRACTICE:**
  - **CHECKLISTS/COMM/GROUND OPS**
  - **TAKEOFF/DEPARTURE/FLIGHT ADMIN**
  - **TAKEOFF**
  - **DEPARTURE**
  - **COURSE RULES**
  - **VISUAL NAVIGATION**
  - **DEAD RECKONING**
  - **DESCENT/FIELD ENTRY**





# CONDUCT



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- **PRACTICE CONTINUED:**
  - VFR LANDING PATTERN
  - FIELD CARRIER LANDING
  - CROSSWIND LANDINGS
  - WAVEOFF
  - FULL-STOP LANDING



**NFM 4201**

# BLOCK MIF



CTS REF	MANEUVER	NFM4201
1	General Knowledge/Procedures	4+
2	Emergency Procedures	3
3	Headwork/Situational Awareness	3+
4	Basic Airwork	4+
5	Mission Planning/Briefing/ Debriefing	4+
6	Communications	4+
7	Ground Operations	1
8	Flight Admin	4+
10	Takeoff	1
11	Departure	1
8	Course Rules	4+
14	Visual Navigation	4+
14	Dead Reckoning	4+
13	Descent/Field Entry	4+
22	VFR Landing Pattern	1
23	Field Carrier Landing	1
23	Crosswind Landings	1
52 24	Waveoff	1
23	Full-Stop Landing	1



# Emergencies



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- AIRCRAFT FALLOUT
- CLEAR ENGINE PROCEDURE
- ABORTED TAKEOFF
- RWY DEP / LOSS OF DIRECTIONAL CONTROL
- SYSTEM FAILURES/ EPs / CRM
- BIRD STRIKE/ MIDAIR
- RADIO/ ICS FAILURE
- LOSS OF NAVAIDS / LOST PLANE
- INADVERTENT IMC / LOST SIGHT / LCLS
- DISORIENTATION / VERTIGO
- HYPOXIA
- EJECTION (HIGH / LOW / GROUND)
- SAR / ON SCENE COMMANDER
- DIVERT(S) / BINGO FUEL TO DIVERT



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# STANDARD DEBRIEFING FORMAT



- THE FLIGHT LEAD OR PILOT-IN-COMMAND IS RESPONSIBLE FOR ENSURING ALL FLIGHT OR CREWMEMBERS ARE THOROUGHLY DEBRIEFED ON THE CONDUCT OF THE MISSION UTILIZING THE “S-P-B-E-MS-LL” FORMAT OUTLINED BELOW.

- I. SAFETY
- II. PLANNING
- III. BRIEF
- IV. EXECUTION
- V. MISSION SUCCESS
- VI. LESSONS LEARNED