

OPERATIONAL RISK MANAGEMENT (ORM)

What is it? "The process of dealing with risk associated with military operations." A tool/technique to identify the risks and safety hazards in a training event and the means to minimize them. COMMON SENSE. Time-critical, deliberate, in-depth.

When is it required (here at UVA NROTC)? For all Midshipmen training events.

Why? To maximize safety commensurate with mission accomplishment.

4 Principles of ORM:

1. Accept risk only when the benefits outweigh the costs
2. Accept no unnecessary risks
3. Anticipate and manage risk by planning
4. Make risk decisions at the right level

5 steps of ORM:

1. Identify hazards
2. Assess risk
3. Develop and decide on risk controls
4. Implement controls
5. Supervise

STEP 1: IDENTIFY HAZARDS

-Hazard: A condition with the potential to cause personal injury or death, property damage, or mission degradation

-Think through event *from start to finish*. What are the hazards and what causes them?

STEP 2: ASSESS RISK

-Develop Initial Risk Assessment Code (RAC)

Risk Matrix

Risk Assessment Code

- 1 = Critical
- 2 = Serious
- 3 = Moderate
- 4 = Minor
- 5 = Negligible

| | | Probability of Occurrence | | | |
|----------|-----|---------------------------|---|---|---|
| | | A | B | C | D |
| SEVERITY | I | 1 | 1 | 2 | 3 |
| | II | 1 | 2 | 3 | 4 |
| | III | 2 | 3 | 4 | 5 |
| | IV | 3 | 4 | 5 | 5 |

Hazard Severity Categories

- I - May cause death, loss of facility/asset.
- II - May cause severe injury, illness, property damage.
- III - May cause minor injury, illness, property damage.
- IV - Minimal threat.

Hazard Probability Categories

- A - Likely to occur immediately or within a short period of time.
- B - Probably will occur in time.
- C - May occur in time.
- D - Unlikely to occur.

STEP 3: DEVELOP AND DECIDE ON RISK CONTROLS

- How to minimize or eliminate the hazards?
- Before the training event? During?
- Develop Residual Risk Assessment Code (RAC)- if it is a 1 (Critical) or 2 (Serious) then the risk will likely not be acceptable.

STEP 4: IMPLEMENT CONTROLS

- How to implement the risk controls

STEP 5: SUPERVISE

- Who? Where? When?
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Common Problems in ORM Process:

1. Failure to conduct ORM (leading to unanticipated injury or investigation)
 2. Not getting key personnel involved (i.e. doing it alone)
 3. Not briefing it to subordinates
 4. Failure to debrief and conduct after-action review.
 5. Changing dates on previous ORM Worksheets without thinking through the process.
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Procedures at UVA NROTC

Will be used for : PT, field exercises, firearms training, field meets, Orientation Week, trips (Cornell, Tulane)...

-PT:

- A General PT ORM worksheet will cover Sqd, Plt, Co and Bn PT events (BN Athletics Officer/ XO will coordinate with MOI)
- Additional PT worksheets will be completed for "unusual" PT events and approved in advance by MOI.
- Avoid COMMON PROBLEMS #2 AND #4

-Operations Orders:

- ORM Worksheets will be prepared by the Platoon Commander and approved by the Bn staff and MOI.
- ORM Worksheet will be submitted to the CO as part of the Operations Order briefing.

Mission: FAMFIRE

Date Worksheet Prepared: 10 August 2004

| Step 1. Identify Hazards | | Step 2. Assess | Step 3. Make Risk Decisions | Step 4. Implement Controls | Step 5. Supervise | |
|----------------------------------|---|----------------|---|----------------------------|---|---|
| Hazards | Causes | Initial RAC | Develop Controls | Res RAC | How to Implement | How to Supervise |
| Motor Vehicle Accident (enroute) | <ul style="list-style-type: none"> - Operator Error - Mechanical Failure - Improper Route Planning - Environmental Hazards | 2 | <ul style="list-style-type: none"> - Driver briefs w/ route - Use of A-drivers/ proper rest - Pre-op vehicle inspections - Convoy techniques - Minimize # of vehicles | 3 | <ul style="list-style-type: none"> - Driver briefs/ scheduling - O-Academy training | <ul style="list-style-type: none"> - Unit Staff Involvement - MIDDN Staff Involvement |
| Self-inflicted Gunshot | <ul style="list-style-type: none"> - MIDDN fear/ stress - Lack of prep/ training - Not understanding range commands/ wpns conditions | 2 | <ul style="list-style-type: none"> - Minimize stress prior to and during conduct - Detailed Safety Brief - Detailed Wpns Handling class. - Qualified instructors - Use of Position Safety Officers - Limit # firing points/ ammo/ wpns | 3 | <ul style="list-style-type: none"> - Safety Brief and Wpns Handling classes prior to firing. - Liaison with RRPC officials - Trained PSOs at each firing point - Confirmation Brief w/ MIDDN Staff on the day prior - Pre-Mishap plan prepared - MEDEVAC procedures prepared and briefed. | <ul style="list-style-type: none"> - Staff Involvement - RRPC supervision - RSO/ PSO Supervision |
| Gunshot inflicted on others | <ul style="list-style-type: none"> - MIDDN fear/ stress - Firing outside of Range Limits - Not understanding range commands/ wpns conditions - Improper wpns handling | 2 | <ul style="list-style-type: none"> - Minimize stress prior to and during conduct - Detailed Safety Brief - Detailed Wpns Handling class. - Qualified instructors - Use of Position Safety Officers - Limit # firing points/ ammo/ wpns - Proper Target Placement | 3 | <ul style="list-style-type: none"> - Safety Brief and Wpns Handling classes prior to firing. - Liaison with RRPC officials - Trained PSOs at each firing point - Confirmation Brief w/ MIDDN Staff on the day prior - Pre-Mishap plan prepared - MEDEVAC procedures prepared and briefed. | <ul style="list-style-type: none"> - Staff Involvement - RRPC supervision - RSO/ PSO Supervision |
| Cook-offs / Exploding ammunition | <ul style="list-style-type: none"> - Weapon malfunction - Improper clearing techniques - Old ammunition | 4 | <ul style="list-style-type: none"> - PSO supervision - Pre-fire inspection of all pistols. - Proper lubrication of all weapons - Detailed Safety Brief - Detailed Wpns Handling class | 4 | <ul style="list-style-type: none"> - Detailed planning with RRPC officials. - Ammunition and Weapon inspections - PSO at each station | <ul style="list-style-type: none"> - RSO/ PSO Supervision |
| Shrapnel in eye | <ul style="list-style-type: none"> - Not wearing proper eye protection while on the range | 4 | <ul style="list-style-type: none"> - Ensure all MIDDN are wearing proper eye protection. - Detailed Safety Brief - Use of Position Safety Officers | 5 | <ul style="list-style-type: none"> - Incorporated into Safety brief | <ul style="list-style-type: none"> - RSO/ PSO Supervision |
| Damage to ears | <ul style="list-style-type: none"> - Not wearing proper hearing protection while on the range. | 4 | <ul style="list-style-type: none"> - Ensure all MIDDN are wearing proper hearing protection. - Detailed Safety Brief | 5 | <ul style="list-style-type: none"> - Incorporated into Safety brief | <ul style="list-style-type: none"> - RSO/ PSO Supervision |