

**THE UNIVERSITY OF  
MICHIGAN  
NAVAL ROTC**



WOLVERINE DRILL COMPETITION  
**STANDARD OPERATING PROCEDURES**



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**CHAPTER 1 - GENERAL INFORMATION**

The University of Michigan Naval Reserve Officer Training Corps will host an annual Wolverine Drill Competition.

**1.1: Events.** The following are a list of possible events:

- Platoon Drill
- Squad Drill
- Color Guard
- 2-Member Exhibition
- Endurance Challenge
- Sailing Regatta
- Nautical Themed Relay
- Rifle Competition
- Pistol Competition

**1.2: Planning.** The Drill Competition Coordinator, Drill Team Commander and Assistant Drill Team Commander will be responsible for the overall drill competition. Other positions include:

- Drill & Color Guard Event Captain
- Endurance Challenge Event Captain
- Sailing Regatta Event Captain
- Rifle and Pistol Match Event Captain
- Logistics Coordinator
- Chow Company Commander
- Safety OIC
- Trophy & T-Shirt Coordinator
- Communications OIC

**1.3: Registration Packet.** A registration packet will be emailed to all units and will be posted online by 1 January.

**1.4: Team Captains Meeting.** A Team Captains Meeting will be held at 0600 the Saturday morning of the competition at North Hall. A brief overview of events and safety procedures will be reviewed and scheduling announcements will be made. A light breakfast will be provided.

**1.5: Inclement Weather Plan.** The inclement weather plan will follow the procedures outlined in this document and in the University of Michigan Wolverine Drill Competition ORM in Appendix G. Decisions made to accommodate inclement weather will be announced at the Team Captains Meeting.

**1.6: Food.**

- a. A complimentary breakfast will be provided to Team Captains and staff members at the Team Captains Meeting. All other participants should plan on eating prior to arriving at the competition.
- b. Lunch will be provided at a nominal cost at the location of the drill events.
- c. Fluids, fruit, and lunch foods will be provided to Endurance Challenge participants at the conclusion of their event.

**1.7: Event Shirts.** Event shirts are optional, and will be considered on an



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annual basis. This year, shirts are being sold for \$10/shirt. To see the design or place an order, contact MIDN Lippie at elippie@umich.edu.

**1.8: Event Locations.** A list of driving directions, phone numbers, and maps to all locations pertaining to the Wolverine Drill Competition will be provided to all participating units and will be included in Appendix E.

**1.9: Event Parking.** The Palmer Structure will be utilized for the Captains Meeting and Endurance Challenge. Parking and Transportation Services has instructed that visitors should use the last entrance from Palmer Drive marked "Visitors" to park in the Palmer Structure (height 82"). The University of Michigan NROTC unit will provide day passes to other units for all government vehicles to be used as transportation to the competition. Day passes will be obtained in advance of the competition, so other schools should ensure that a van count is passed to our unit before the competition. For all non-government vehicles, parking in Palmer will cost \$1.40/hour.

The parking lot outside of the Sports Coliseum will be utilized for the Platoon and Squad Drill, Color Guard, and 2-Member Exhibition events. Parking in this lot is free on weekends. The Sailing Regatta and the Rifle and Pistol Match will have parking at their respective events.

Buses and coaches may not park anywhere on Central Campus. Parking lot SC7 on South Campus is the designated area where buses and coaches may park for free and without a permit or hang tag. Refer to Appendix E for a diagram indicating the appropriate place to park buses and coaches.

If a unit needs to borrow a government vehicle from the University of Michigan NROTC unit for the competition days, they will contact the AMOI in advance of the competition and coordinate the use of a van.

**1.10: Scoring Matrix.** The scoring matrix can be viewed in Appendix C. All events will be weighted equally in determining the Overall Winner.

**1.11: Points of Contact.** A list of POCs is to be included in the registration packet and online.

**1.12: Operating Risk Management (ORM).** ORMs will be completed for each event and are included in Appendix G.

**1.13: After Action Reports.** After action reports will be written by each Event Captain and Team Captain and compiled by the Drill Competition Coordinator at the conclusion of each competition.

**1.14: SOP.** This SOP will be updated and posted online NLT 1 March each year.



**CHAPTER 2 - PLATOON BASIC DRILL**

**2.1: General Information.** Platoon Basic Drill will allow schools to display their proficiency of drill as a unit. Emphasis will be placed on marching and performing simple movements with precision and unity.

- a. Location. The event of the Platoon Basic Drill competition will take place at the same location as the Squad Basic Drill and Color Guard competitions. Possible drill decks are Palmer Field, Mitchell Field, the Oosterbaan Field House, the Sports Coliseum, or EMU's Indoor Practice Facility. The designated drill deck for this year's competition is the Sports Coliseum.
- b. Inclement Weather Plan. In the case of inclement weather, the conduct of this event will not change. The event will be held indoors at the Sports Coliseum.
- c. Number of Entries. One team allowed per competing unit.
- d. Unit Size. A team will consist of no less than 14 members and no more than 29 members, including the Unit Commander and platoon guide.
- e. Unit Organization. Each team will consist of three squads, one platoon guide, and one Unit Commander.
- f. Weapons. All platoon members will carry demilitarized weapons. Authorized rifles for the competition consist of the M1, M14, M16, or Springfield 1903. The Unit Commander will carry a sword. The platoon guide will carry a standard eight-foot (8') staff with unit guidon attached.
- g. Weapon Transportation. Weapons will be transported in cases to and from the drill deck. Should schools not have cases, the weapons will be carried in uniform and in formation to and from the drill deck.
- h. Uniform. The basic uniform for all Naval ROTC units will be NWU's or Desert MARPAT uniforms, sleeves rolled and no cartridge belt. All other services or military schools and academies are to wear the uniform that is most similar to the Naval ROTC Midshipmen uniform.
  1. Alternate Uniform. Service Khaki uniform for Midshipman and Officer Candidates, and Service "C" for all active duty Marines.
- i. Grading. Each evaluator will use a Platoon Basic Drill Grade Sheet (Appendix B) to evaluate the unit conducting Platoon Basic Drill. Each squad can earn up to 186 points, the Unit Commander can earn 30 points, and the platoon guide will be scored as part of 3<sup>rd</sup> squad for a total of 588 possible points. In the event of a tie, the senior evaluator's score sheet will be used to determine the winner. If the tie is still unbroken the determining factor will be the Platoon Commander's score.
- j. Overall Competition. This event is weighted equally against other events in determining the overall winner.

**2.2: Event Procedures.**

- a. Drill Area. Platoon Drill will be conducted using two basketball courts (~50x30 yards). Leaving these boundaries will result in a 10-point deduction for each occurrence.
- b. Procedures. Units are required to be within the immediate vicinity of the inspection area 15 minutes prior to their respective time slot. Once the evaluators are ready, the Unit Commander will form the platoon anywhere within the boundaries and report in to the evaluator.
  1. Report. The Unit Commander will report in to the senior evaluator



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by stating the following: "GREETING OF THE DAY  
Sir/Ma'am/Appropriate Rank, UNIVERSITY NAME formed for the conduct  
of drill." The senior evaluator will then present the Unit  
Commander with a drill card and ask if there are any questions.  
The Unit Commander will then be allowed to proceed with the drill  
card.

- c. Drill Card. A Platoon Basic Drill Card is included in Appendix A. The Unit Commander will carry the drill card issued by the senior evaluator after reporting in. The Unit Commander must include commands omitted from the drill card. It is the responsibility of the Unit Commander to know and issue all commands required for an individual movement, including those incidental commands required for the next movement.
- d. Evaluation. All basic drill in this competition will be conducted in accordance with MCO P5060.20. Any questions that are not specifically addressed in the order will be addressed to the University of Michigan NROTC Assistant Marine Officer Instructor. Units are encouraged to contact him or the Midshipmen Point of Contact for clarification to any questions they may have prior to the event.
  1. Halted Movements. All halted movements will be given at a pace established by the evaluator. The Unit Commander will wait for the senior evaluator to give a verbal signal prior to the Unit Commander giving the next command. Failure to wait for the signal will result in all possible deductions to be made for the movement just executed.
  2. Commands While Marching. The Unit Commander will give commands at his or her own pace while the platoon is marching. The Unit Commander is allowed to conduct "running" commands. After a command that brings the platoon to a halt, the Unit Commander will wait for a signal from the senior evaluator to proceed.
  3. Evaluation of the Commander. The senior evaluator will evaluate the Unit Commander, the platoon guide, and the 1<sup>st</sup> squad. The Unit Commander will be evaluated on every command given during the competition. Points will be deducted for improper commands, commands given on the wrong foot or in the wrong sequence, failure to make obvious corrections, and placement relative to the platoon when giving commands.
  4. Evaluation of the Platoon. The other evaluators will evaluate 2<sup>nd</sup> and 3<sup>rd</sup> squad. If the unit fails to execute a command the maximum number of discrepancies will be awarded. If the Unit Commander fails to give one of the commands listed on the drill card, the Unit Commander will be penalized but the unit will not be penalized.
- e. Evaluators. A minimum of two (2) evaluators will be used to grade this event, with three (3) evaluators being optimal. If only two evaluators are used, then the senior evaluator will grade the Unit Commander and 1<sup>st</sup> squad, and the second evaluator will grade 2<sup>nd</sup> and 3<sup>rd</sup> squad and the guide. If a third evaluator is used, then one evaluator will grade 2<sup>nd</sup> squad and one evaluator will grade 3<sup>rd</sup> squad and the guide.



### CHAPTER 3 - SQUAD BASIC DRILL

**3.1: General Information.** Squad Basic Drill is designed to challenge the competitors in their small unit capabilities and leadership. Detail is imperative due to the small size of the unit and will be graded as such.

- a. Location. The event of the Squad Basic Drill competition will take place at the same location as the Platoon Basic Drill and Color Guard competitions. Possible drill decks are Palmer Field, Mitchell Field, the Oosterbaan Field House, the Sports Coliseum, or EMU's Indoor Practice Facility. The designated drill deck for this year's competition is the Sports Coliseum.
- b. Inclement Weather Plan. In the case of inclement weather, the conduct of this event will not change. The event will be held indoors at the Sports Coliseum.
- c. Number of Entries. One team allowed per competing unit.
- d. Unit Size. A team will consist of no less than 7 members and no more than 10 members, including the Squad Leader.
- e. Unit Organization. Units will be organized into one squad with a Squad Leader. The Squad Leader will not be a prior enlisted member.
- f. Weapons. All squad members and the Squad Leader will carry demilitarized rifles. Authorized rifles for the competition consist of the M1, M14, M16, or Springfield 1903.
- g. Weapon Transportation. Weapons will be transported in cases to and from the drill deck. Should schools not have cases, the weapons will be carried in uniform and in formation to and from the drill deck.
- h. Uniform. The basic uniform for all Naval ROTC units will be NWU's or Desert MARPAT uniforms, sleeves rolled and no cartridge belt. All other services and or military schools and academies are to wear the uniform that is most similar to the Naval ROTC Midshipmen uniform.
  1. Alternate Uniform. Service Khaki uniform for Midshipman and Officer Candidates, and Service "C" for all active duty Marines.
- i. Grading. Each evaluator will use a Squad Basic Drill Grade Sheet (Appendix B) to evaluate the unit conducting Squad Basic Drill. The squad can earn up to 162 points and the Squad Leader can earn up to 30 points, for a total of 192 points possible. In the event of a tie, the senior evaluator's score sheet will be used to determine the winner. If the tie is still unbroken the determining factor will be the Squad Leader's score.
- j. Overall Competition. This event is weighted equally against other events in determining the overall winner.

### 3.2 Event Procedures.

- a. Drill Area. Squad Drill will be conducted using 1.5 basketball courts (~25x25 yards). Leaving these boundaries will result in a 10-point deduction for each occurrence.
- b. Procedures. Squads are required to be within the immediate vicinity of the inspection area 15 minutes prior to their respective time slot. Once the evaluators are ready, the Squad Leader will form the squad anywhere within the boundaries and report in to the evaluator.
  1. Report. The Squad Leader will report in to the senior evaluator by stating the following: "GREETING OF THE DAY Sir/Ma'am/Appropriate Rank, UNIVERSITY NAME formed for the conduct of drill." The senior



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evaluator will then present the Squad Leader with a drill card and ask if there are any questions. The Squad Leader will then be allowed to proceed with the drill card.

- c. Drill Card. A Squad Basic Drill Card is included in Appendix A. The Squad Leader will carry the drill card issued by the senior evaluator after reporting in. The Squad Leader must include commands omitted from the drill card. It is the responsibility of the Squad Leader to know and issue all commands required for an individual movement, including those incidental commands required for the next movement.
- d. Evaluation. All basic drill in this competition will be conducted in accordance with MCO P5060.20. Any questions that are not specifically addressed in the order will be addressed to the University of Michigan NROTC Assistant Marine Officer Instructor. Units are encouraged to contact him or the Midshipmen Point of Contact for clarification to any questions they may have prior to the event. Any challenges must be made in reference to the order.
  1. Halted Movements. All halted movements will be given at a pace established by the evaluator. The Squad Leader will wait for the senior evaluator to give a signal prior to the Squad Leader giving the next command. Failure to wait for the signal will result in all possible deductions to be made for the movement just executed.
  2. Commands While Marching. The Squad Leader will give commands at his or her own pace while the squad is marching. The Squad Leader is allowed to conduct "running" commands. After a command that brings the squad to a halt, the Squad Leader will wait for a signal from the senior evaluator to proceed.
  3. Evaluation of the Squad Leader. One evaluator will evaluate the Squad Leader. The Squad Leader will be evaluated on every command given during the competition. Points will be deducted for improper commands, commands given on the wrong foot or in the wrong sequence, failure to make obvious corrections, and placement relative to the squad when giving commands.
  4. Evaluation of the Squad. If the squad fails to execute a command the maximum number of discrepancies will be awarded. If the Squad Leader fails to give one of the commands listed on the drill card, the Squad Leader will be penalized but the squad will not be penalized.
- e. Evaluators. A minimum of one (1) evaluator will be used to grade this event, with two (2) evaluators being optimal. If only one evaluator is used, he or she will grade the Squad Leader and the squad. If two evaluators are used, then one evaluator will grade the Squad Leader, and the second evaluator will grade the squad.





#### CHAPTER 4 - COLOR GUARD

**4.1: General Information.** The Color Guard competition will allow all schools to showcase the tradition of excellence and pride in posting the colors.

- a. Location. The event of the Color Guard competition will take place at the same location as the Platoon Basic Drill and Squad Basic Drill competitions. Possible drill decks are Palmer Field, Mitchell Field, the Oosterbaan Field House, the Sports Coliseum, or EMU's Indoor Practice Facility. The designated drill deck for this year's competition is the Sports Coliseum.
- b. Inclement Weather Plan. In the case of inclement weather, the conduct of this event will not change. The event will be held indoors at the Sports Coliseum.
- c. Number of Entries. Two teams allowed per competing unit.
- d. Unit Size. All Naval ROTC color guards shall consist of five team members: three color bearers (National Ensign and Navy and Marine Corps colors) and two riflemen. All other unit color guards will consist of a minimum of at least two color bearers (National Ensign and Service colors) and two riflemen.
- e. Weapons. Riflemen are required to carry demilitarized rifles for this event. Authorized rifles for the competition are standard military type such as the M1, M14, M16, or Springfield 1903.
- f. Weapon Transportation. Weapons will be transported in cases to and from the drill deck. Should schools not have cases, the weapons will be carried in uniform and in formation to and from the drill deck.
- g. Flags. The color guard shall carry the proper flag staff (9 feet 6 inches) and colors (4.33 feet on the hoist by 5.5 feet on the fly) as outlined in the Flag Manual MCO P5060.20.
- h. Uniform. The basic uniform for all Naval ROTC units will be NWU's or Desert MARPAT uniforms, sleeves rolled and no cartridge belt. All other services and or military schools and academies are to wear the uniform that is most similar to the Naval ROTC Midshipmen uniform.
  1. Alternate Uniform. Service Khaki uniform for Midshipman and Officer Candidates, and Service "C" for all active duty Marines.
- i. Grading. The evaluator will use a Color Guard Grade Sheet (Appendix B) to evaluate the unit. The color guard can earn 94 points and the Unit Commander can earn 20 points, for a total of 114 possible points from each evaluator. In the event of a tie, the Unit Leader's score will be used to determine the winner.
- j. Overall Competition. This event is weighted equally against other events in determining the overall winner.

#### **4.2: Event Procedures.**

- a. Drill Area. Color Guard will be conducted using one (1) basketball court (~28x16 yards). Leaving these boundaries will result in a 10-point deduction for each occurrence.
- b. Procedures. Units are required to be within the immediate vicinity of the inspection area 15 minutes prior to their respective time slot. When told to do so by the evaluator, the Unit Commander will form the unit anywhere within the drill area that he or she sees fit and report into the evaluator.
  1. Fall In / Report. The Unit Commander and the detail will fall



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in at trail arms within the boundaries and present colors to the senior evaluator. The Unit Commander will report in to the senior evaluator by stating the following: "GREETING OF THE DAY Sir/Ma'am/Appropriate Rank, UNIVERSITY NAME formed for the conduct of drill." The senior evaluator will then present the Unit Commander with a drill card and ask if there are any questions. The Unit commander will then give the command order colors and be allowed to proceed with the drill card.

- c. Drill Card. A Color Guard Drill Card (Appendix A) is included in this SOP. The Unit Commander must memorize the drill card. It is the responsibility of the Unit Commander to know and issue all commands required for an individual movement, including those incidental commands required for the next movement.
- d. Evaluation. All basic drill in this competition will be conducted in accordance with MCO P5060.20. Any questions that are not specifically addressed in the order will be addressed to the University of Michigan NROTC Assistant Marine Officer Instructor. Units are encouraged to contact him or the Midshipmen Point of Contact for clarification to any questions they may have prior to the event. Any challenges must be made in reference to the order.
- e. Evaluators. One (1) evaluator will be used to grade this event.



**CHAPTER 5 - 2-MEMBER EXHIBITION**

**5.1: General Information.** 2-Member Exhibition Drill allows units to demonstrate skill and creative abilities.

- a. Location. The event of the 2-Member Exhibition competition will take place at the same location as the Platoon Basic Drill and Squad Basic Drill competitions. Possible drill decks are Palmer Field, Mitchell Field, the Oosterbaan Field House, the Sports Coliseum, or EMU's Indoor Practice Facility. The designated drill deck for this year's competition is the Sports Coliseum.
- b. Inclement Weather Plan. In the case of inclement weather, the conduct of this event will not change. The event will be held indoors at the Sports Coliseum.
- c. Number of Entries. Multiple teams allowed per competing unit.
- d. Unit Size. Two members are allowed to compete in each team. Members may be a part of more than one exhibition team.
- e. Weapons. Members are required to carry demilitarized rifles for this event. Authorized rifles for the competition are standard military type such as the M1, M14, M16, or Springfield 1903.
- f. Weapon Transportation. Weapons will be transported in cases to and from the drill deck. Should schools not have cases, the weapons will be carried in uniform and in formation to and from the drill deck.
- g. Uniform. The basic uniform for all Naval ROTC units will be NWU's or Desert MARPAT uniforms, sleeves rolled and no cartridge belt. All other services and or military schools and academies are to wear the uniform that is most similar to the Naval ROTC Midshipmen uniform.
  1. Alternate Uniform. Service Khaki uniform for Midshipman and Officer Candidates, and Service "C" for all active duty Marines.
- h. Grading. Grading will be based on precision, difficulty, originality, variety, and complexity of routine. It will also be graded on military bearing, floor coverage, and flow of routine, and overall impression. Deductions will occur for routines that do not meet the time requirements, for dropped weapons, or for leaving the event boundaries. The team can earn a total of 90 points.
- i. Overall Competition. This event is weighted equally against other events in determining the overall winner.

**5.2: Event Procedures.**

- a. Drill Area. 2-Member Exhibition will be conducted using half of a basketball court (~14x8 yards). Leaving these boundaries will result in a 5-point deduction for each occurrence.
- b. Procedures. Units are required to be within the immediate vicinity of the inspection area 15 minutes prior to their respective time slot. When told to do so by the evaluator, the Unit Commander will form the unit anywhere within the drill area that he or she sees fit and report into the evaluator.
- c. Time Limit. Routines will not be less than two (2) minutes or longer than four (4) minutes in duration.
- d. Evaluators. At a minimum, one (1) evaluator will be used to grade this event, with two (2) evaluators being optimal.



## CHAPTER 6 – ENDURANCE CHALLENGE

**6.1: General Information.** The race will begin and end at North Hall. Transportation to and from the endurance challenge is the responsibility of each individual unit.

- a. Number of Entries. Two (2) teams allowed per unit.
- b. Timeline. Check-in will start at 0600 on the day of the drill meet. The event will begin at 0700. Teams will launch in heats of two teams every 30 minutes. Teams must check-in 15 minutes prior to the start of their team's heat in the lobby at North Hall.
- c. Teams. Teams will consist of four (4) members and may be co-ed. Teams of females are encouraged. Should enough female teams register, a competitive division for female teams will be created.
- d. Uniform. The uniform will be boots and utility trousers and camelback or canteen. Competing midshipmen must provide their own camelbacks/canteens.
- e. Proctors. One proctor will be assigned to each team and will run alongside to ensure that teams are being fairly assessed, completing each task in the correct manner, are directed along the course properly, and crossing roads safely.
- f. Scoring. A running clock will be kept. The starting and finishing time of each team will be marked. The final time is the difference between the two. The fastest time wins. Each exercise will be covered in the pre-race brief and any questions on form should be addressed at that time. Proctors have the final word and will keep count of repetitions. In the unlikely event of a tie, the team that has the fastest KIM game time will win the tie.
- g. Gear. Each team shall bring 1 stretcher.
- h. Safety. Outlined in ORM in Appendix G.
- i. Overall Competition. This event is weighted equally against other events in determining the overall winner.

**6.2: Course Description.** This event will consist of an 8-10 mile run with 12 stations. The entire course is run on nature trails and sidewalks. Each team will carry one 45lbs. pack for the duration of the race. The pack must be carried for the entire race unless otherwise directed by the proctor (denoted as ""). For failure to do so, teams will incur a 20 minute time penalty. Team members will stay within 25 meters of each other throughout the entire race. Time penalties will be at the discretion of the proctors.

### **6.3: Examples of Stations**

1. 25 Barbell Squat Lunges (95lbs)-One repetition will be a Squat then Lunge(R and L)
2. 30 Squad Pushups-Form a line with one's legs on a team member's shoulders.
3. Buddy Squat/Plank/Sprint-Two members will perform a back-to-back wall squat and the third will hold the plank position while the 4th member completes a sprint. All team members must rotate through each place.
4. \*Fireman Carry- All team members must be carried.
5. Stretcher Loop-Teams will carry one member wearing a Kevlar helmet.
6. 500 Team Ammo Can Presses
7. 100 4 count Flutter Kicks-Teams must complete the exercise together.



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8. 30 Fireteam Pushups-Form a square with one's legs on a team member's shoulders.
9. \*100 Fireteam Situps-The team must link arms and situp as a unit.
10. Stretcher Loop-Same as above.
11. 200 Team Pullups (Kipping Allowed)

**6.4: Weather Contingency Plan**

- a. Teams will compete in a 1 hour endurance challenge in the hold at North Hall.
- b. Heats of 2 teams will compete at one time, and will finish on the hour, or when all repetitions are completed.
- c. The teams that complete the most repetitions of the following workouts will be awarded the points accordingly:
  1. 500 push-ups, 500 squats, 500 pull-ups, 500 sit-ups, 500 burpees
- d. All the repetitions for the first four stations must be completed before the team can begin the burpee section.
- e. For the first four stations, only one midshipman will be allowed at each station at a time, and the team must rotate accordingly.



**CHAPTER 7 - SAILING REGATTA**

**7.1: General Information.** The Michigan Sailing Regatta is located at 8010 Strawberry Lake Rd. Dexter, MI 48130. The event will be held on Baseline Lake. Transportation to and from the Sailing Regatta is the responsibility of each individual unit.

- a. **Number of Entries.** Two (2) teams allowed per unit.
- b. **Timeline.** The event will start at approximately 0900 on the day of the drill meet and teams will launch in heats of no more than (6) boats at a time. Teams must check-in 15 minutes prior to the start of their team's first heat at Sailing Regatta Starting Point.
- c. **Teams.** Teams will consist of two (2) members.
- d. **Uniform.** All members are required to wear a wet suit, life jacket, helmet, and closed toe shoes while participating in the event. Teams are highly encouraged to bring their own uniform items, as only a limited number of uniform items will be available for temp-loan the day of the race. Prior contact and coordination is required for uniform temp-loans.
- e. **Boats.** The University of Michigan will provide all sailboats and rigging equipment. Units that would like to bring their own sailing boats and/or rigging equipment are welcome to do so as long as it is standard Naval ROTC equipment.
- f. **Scoring.** The fastest teams combined overall time, minus any deductions/penalties, will be determined the winner. In the event of a tie, the team with the fastest heat time from either heat will win the tie.
- g. **Safety.** All participants are required to have a current swim and sailing qualification. In addition, at least one safety boat will be in the water at all times during the competition. Any sailor that requires assistance is to immediately signal for help.
- h. **Overall Competition.** This event is weighted equally against other events in determining the overall winner.

**7.2: Logistics.**

- a. **Heats.** Each team will be separated in two, Skipper A and Skipper B. Each team member will race in separate heats. All Skipper A racers will race in the early heats, and all Skipper B racers will race in the later heats. This will help make the race more competitive by ensuring that all teams compete in roughly the same weather conditions (i.e. lots of wind in the early heats, and no winds in the later heats). For example, if there are 16 teams that enter the sailing regatta, all 16 Skipper A's will race in the early heats and all 16 Skipper B's will race in the later heats.
- b. **Course.** The course will be an "island" course. One heat consists of one lap around the lake's island. Once all boats have been launched, they will proceed to the starting line and wait for a horn blast to start the race.
- c. **Signals.** There will be a three-minute starting sequence. The start sequence will be with sound signals only.
  1. Warning Signal - Three (3) minutes prior to the start - Three (3) short blasts
  2. Preparatory Signal - One (1) minute prior to the start - Two (2) short blasts



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3. Start Signal - At start of race - One (1) long blast
4. End of the Race - End of the race - Two (2) long blasts
5. Emergency Signal - As required - Five (5) long blasts

**7.3: Rules.** The following are the rules for the race and will be adhered to at all times:

- a. Races will be sailed in accordance with the 2009-2012 United States Sailing Rules.
- b. The Start and Finish Lines are closed and can only be crossed when starting and finishing. You may be exonerated by sailing back down and around the outside of the line. The Start line will be between two Buoys, and the Finish Line will be between another white buoy and the bow of the committee boat.
- c. The "Round the Ends Rule" will be in effect. Any boat over the starting line or it's extensions from the sound of the Preparatory Signal (1 min prior to start) to the Starting Signal will have to return to the starting side of the line by going around one of the ends of the starting line. This is being done to prevent dip starts.
- d. The sequence for each race will start with a series of short signals. Each race will run through the Warning Signal, the Preparatory Signal and proceed with the Start signal. In the even an error is made at the starting sequence, the committee boat will sound multiple blasts, pause and then issue three short blasts again to begin with the warning signal. Failure of a competitor to hear an adequate starting sequence will not be grounds for redress.
- e. In the event of a General Boat Recall, five long blasts will be sounded. All skippers are to discontinue racing and return to shore. If an individual skipper decides to retire from the race, he must inform the committee boat prior to returning to shore.
- f. Prior to the first race of each series, each sailor should sail close aboard the committee boat and hail the committee boat to report for competition. This should be accomplished prior to the Warning signal.
- g. Boats scored as DID NOT START (DNS) will not receive a time. A boat will be scored DNS if it crosses the starting line more than 5 minutes after the race start.
- h. Boats scored as DID NOT FINISH (DNF) will not receive a time. A boat will be scored DNF if it fails to cross the finish line 10 minutes after the first finisher.
- i. Boats that are DISQUALIFIED for any reason will not receive a time.

**7.4: Alternate Nautical Themed Relay**

- a. General Information. Due to the possibility that the sailing portion of the UM W14 drill meet may not be viable the following option is available.
- b. Team Schematics. The team schematics set in place for the regatta will still be held for the relay to ensure equal group sizes, i.e. Team A and Team B each consisting of 2 people.
- c. Event Setup. The relay will consist of 7 different events testing each participant individually on nautical related problems. The first 3 tasks will be completed by one member of the team and the second half by the other member. The last event will be a joint effort between the two members. The event will be set up in a linear fashion where the second



member will not be allowed to start their portion of the relay until the first competitor has reached them and has physically tagged the second member. Each task will be separated by 50 meters.

d. Tasks.

1. Bowline tying station

- i) Competitor will be required to tie a bowline knot connecting line to an object. The knot must be checked before moving on to the next station.
- ii) If a bowline knot cannot be tied, then a 30 second penalty will be awarded to that team.
- iii) An instruction video can be found at <https://www.youtube.com/watch?v=Q9NqGd7464U>



2. Right of Way Station

- i) Competitor will be required to deem, on a white board, what boat in a given racing scenario has the right of way.
- ii) If the individual gives the incorrect answer they will be awarded a 15 second penalty.
- iii) Rules:
  - a) A sailboat running free must keep clear of one close hauled.
  - b) A sailboat close hauled on the port tack must keep clear of a sailboat close hauled on the starboard tack.
  - c) When both boats are running free on opposite tacks the vessel with the wind on the port side must keep clear.
  - d) When both boats are running free on the same tack the boat to windward must keep clear.
  - e) Diagrams can be found at: <http://comminfo.rutgers.edu/~elfox/rules.html>

3. Points of Sail Station

- i) Competitor will have to label all the points of sail on a diagram.
- ii) The competitor will receive a 10 second penalty for every point of sail that they do not list. The competitor will be allowed to move on, after the penalty has been enacted, if they can no longer list any more points or have listed them all.
- iii) The points of sail are as follows, starting from into the wind:

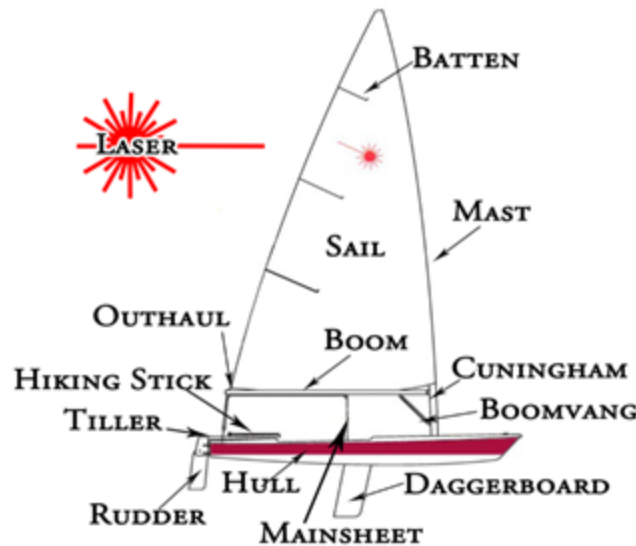
Irons



Close-hauled  
Close-reach  
Beam-reach  
Broad-reach  
Running Free

4. Naming Parts of the Boat Station

- i) Competitor will be given a diagram of a boat and will need to fill in all the boat parts listed on the following diagram:



- ii) The competitor will receive a 10 second penalty for every part of the boat that is not named.

5. Bailing Station

- i) Competitor must bail all the water out of the cockpit of a laser as fast as possible. They will be able to proceed once all the water is removed.
- ii) The event will be carried out using bailers of equivalent sizes.

6. Knot Tying Station

- i) Competitor will be required to tie at least 10 knots before moving on to the final station.
- ii) Acceptable knots are as follows:
- a) Bowline
  - b) Half-hitch
  - c) Figure eight
  - d) Square
  - e) Clove hitch
  - f) Double overhang
  - g) Lariat loop
  - h) Lark's head
  - i) Midshipman's hitch
  - j) Overhand
  - k) Rolling hitch
  - l) Running (slip) knot
  - m) Sailor's knot
  - n) Sheepshank



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- o) Timber hitch
      - p) Constrictor hitch
    - iii) A penalty of 25 seconds will be given for every knot short of the max 10 acceptable knots.
  - 7. Sailboat Rigging Station
    - i) Both competitors will be required to act as a team in order to fully rig a laser on land in as short a period of time as possible.
    - ii) The following checks must be in place for the event to be considered complete:
      - a) All lines must have stopper knots present at the ends.
      - b) Sail must be hoisted to the top
      - c) Tiller must be under the traveler
      - d) All lines must be run through the appropriate cleats
      - e) Boom-vang must be hooked in the appropriate port
      - f) Tiller must be attached to rudder
      - g) Both rudder pins need to be in the appropriate holes
      - h) Outhaul and downhaul must be in place
      - i) Both plugs must be in
      - j) Main sheet must be attached to the base with a bowline knot
      - k) The mainsheet needs to be running through the appropriate blocks
    - iii) The relay will not finish being timed until the rigging of the laser is fully completed according to the above checks.
- e. Ties. In the unlikely event of a tie, a precreated scenario will be presented on a white board outlining a right of way situation and the first team to answer correctly will win.



**CHAPTER 8 - RIFLE AND PISTOL MATCH**

**8.1: General Information.** The Rifle/Pistol matches will be held at Mill Creek Sports Center, 8180 Main Street, Dexter, MI 48130. The range is approximately 30 minutes west of the University of Michigan. Each unit is responsible for transportation to and from the event.

- a. **Number of Entries.** Each school may enter up to 2 rifle teams, and 1 pistol team. Only one rifle team from each school may contribute to the overall score.
- b. **Timeline.** Teams must arrive at the range 20 minutes before their time slot in order to receive the range safety brief, and to facilitate quick turnover at the range. Teams will be notified of their start time prior to the meet.
- c. **Teams.**
  1. **Pistol.** A team consists of four (4) shooters.
  2. **Rifle.** A team consists of four (4) shooters.
- d. **Individual.** Personal scores will be taken for all shooters in both the rifle match and the pistol match. Shooters may elect to shoot only for individual score, and compete separately from a team.
- e. **References.** [NRA Small-bore Rifle Rules Book of 2013](#) and the [NRA Conventional Pistol Rules Book of 2013](#). The NRA Rule Books can be viewed on the Wolverine website or found online. This SOP supersedes any differences or discrepancies between the references and this SOP.
- f. **Course of Fire.**
  1. **Rifle.** The course of fire for the rifle event will consist of 10 rounds from the standing position, 10 rounds from the kneeling position, and 10 rounds from the prone position, as defined by NRA regulations. The competition will be conducted at a range of 50 feet. Shooters will have 50 minutes to complete the course of fire.
  2. **Pistol.** The course of fire for the pistol event will consist of 10 rounds slow fire (5 minutes), 10 rounds timed fire (20 seconds), and 10 rounds rapid fire (10 seconds), as defined by NRA regulations. The competition will be conducted at a range of 50 feet.
- g. **Uniform.** The uniform for this event will be boots and Utes with a battalion or Navy/Marine corps shirt. Team shirts should be matching.
- h. **Equipment.** Teams are responsible for providing all weapons, ammunition, eye protection, ear protection, and permitted shooting aids. Targets will be provided by the University of Michigan.
- i. **Overall Competition.** This event is weighted equally against other events in determining the overall winner.
- j. **Safety.** A range safety brief will be given to each team prior to the competition, to which all teams are expected to adhere. Failure to do so will result in ejection from the competition.
  1. **Ejections:** Any shooter who is ejected from the competition shall lose all points they have earned during that course of fire. Any shooter who is on both a rifle and pistol team, and is ejected before their second event, shall not shoot in the second event. Any shooter who is ejected during their second event shall keep their scores from their completed event. All ejections are under the jurisdiction of the range safety officer.
  2. **Substitutions:** If a shooter is ejected from an event, their team



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- may not substitute another shooter. However, if a shooter is slated for both the rifle and pistol event, and is ejected from the rifle event, a substitute may participate in the pistol event.
- k. Scoring. Scoring will be done by active duty personnel not directly attached to a shooting team. It is the responsibility of the team to notify the scoring official of any discrepancies on their targets prior to leaving the range.
  - l. Ties. In the event of a tie, the following tiebreakers will be used.
    - 1. Team Rifle: The team with the highest accumulated standing score, followed by the highest accumulated kneeling score will win. Should these scores be identical, then the team with the highest individual shooter will be the tie breaker.
    - 2. Team Pistol: The team with the highest accumulated score on the rapid fire event, followed by the timed fire event. Should these scores be identical, then the team with the highest individual shooter will win the event
    - 3. Individual Events: The individual event tiebreakers will mirror the team event tiebreakers in methodology.
  - m. Coaches. Each team may have one spotter during the rifle event. The spotter may not provide any form of coaching other than calling shots.
  - n. Spectators. Due to space restrictions, spectators will only be allowed on a case by case basis, at the discretion of range officials. We will try to accommodate individuals wishing to take pictures. Flash photography is not allowed.
  - o. Disputes: Disputes will be settled by the event captain, acting with the advice of active duty personnel on site. The exception to this rule will be safety disputes, which are the sole jurisdiction of the range safety officer.
  - p. Borrowed Weapons: Any teams who are borrowing weapons from UMNROTC shall be required to check out the weapons prior to use, and then check the weapons in at the end of their event.



**CHAPTER 9 - OVERALL WINNER**

**9.1: General Information.** The Wolverine Drill Competition Overall Winner awards units for all around performance.

- a. **Eligibility.** All units participating in at least one event are eligible for the Overall Winner award.
- b. **Event Weights.** All events are weighted equally in determining the Overall Winner. If a unit has multiple teams competing in one event, only the highest placing team will be considered in determining the Overall Winner. Teams will be ranked and awarded points based on how many schools are in attendance. For example, if 6 units are registered for the competition, the highest ranking team in each event will contribute 6 points to the Overall Winner score, the second-highest ranking team will contribute 5 points, etc. Schools that do not have a team registered in a particular event will receive 0 points for that event toward the Overall Winner.



**CHAPTER 10 - AWARDS CEREMONY**

**10.1: General Information.** An Awards Ceremony will be held at the conclusion of all events.

- a. Location. This year the awards ceremony will be held in the Sports Coliseum.
  1. The awards ceremony could be held in a variety of different venues: On the field of University of Michigan' Football Stadium (The Big House), Oosterbahn Field House, the Central Campus Recreation Building, the EMU Indoor Track Building, Rackham Auditorium, G390 in the Dental Building, or at the Sports Coliseum. As more preparations are made for the drill meet, a location will be contacted to discuss renting options such as cost, available space, etc.
  2. The Big House. The price listed online for renting the field of the Big House for one hour is \$6,000.00, (<http://www.mgoblue.com/specialevents/rentals.html>). Adjustments in price may be possible by getting in touch with MSgt Flores' contacts at the Big House, or claiming this as an "Official University of Michigan event."
- b. Attendance. All units are highly encouraged to attend the awards ceremony, although attendance is not mandatory in order to qualify for awards.
  1. Notice is requested if a unit will be unable to attend.
  2. Units are obligated to pay for all shipping and handling costs that may be incurred for awards that they win.
- c. Award Acceptance. The Drill Team Commander and Guide will accept the awards.
- d. Uniform. Individuals accepting awards will wear NWU's or MARPAT uniforms. All other attendees are authorized to wear proper civilian attire with unit or drill competition t-shirts.
- e. Script. The Master of Ceremony is responsible for ensuring a complete script is written for the Awards Ceremony (Appendix D).



## Appendix A: Drill Cards

### PLATOON DRILL CARD

1. FORM THE PLATOON (NORMAL INTERVAL)
2. OPEN RANKS
3. LEFT SHOULDER
4. RIGHT SHOULDER
5. PORT ARMS
6. ORDER ARMS
7. PRESENT ARMS
8. AT EASE
9. CLOSE RANKS
10. CLOSE
11. FORWARD MARCH
12. COLUMN RIGHT
13. HALF STEP
14. COLUMN RIGHT
15. TO THE REAR
16. COLUMN RIGHT
17. BY THE RIGHT FLANK
18. BY THE LEFT FLANK
19. COLUMN LEFT
20. COLUMN LEFT
21. LEFT OBLIQUE/MARK TIME
22. COLUMN LEFT
23. MARCHING MANUAL
24. COLUMN HALF LEFT
25. COLUMN HALF LEFT
26. COLUMN LEFT
27. EYES RIGHT
28. DISMISSED



**SQUAD DRILL CARD**

1. FORM THE PLATOON (CLOSE INTERVAL)
2. EXTEND
3. ABOUT FACE
4. LEFT SHOULDER ARMS
5. PORT ARMS
6. RIGHT SHOULDER ARMS
7. RIFLE SALUTE
8. ORDER ARMS
9. PARADE REST
10. COLUMN RIGHT (HALTED)
11. BY THE RIGHT FLANK
12. BY THE LEFT FLANK
13. TO THE REAR (X2)
14. COLUMN RIGHT
15. RIGHT OBLIQUE/MARK TIME
16. COLUMN LEFT
17. CHANGE STEP
18. COLUMN LEFT
19. LEFT OBLIQUE/HALF STEP
20. COLUMN LEFT
21. TO THE REAR (X2)
22. COLUMN HALF LEFT
23. COLUMN HALF LEFT
24. MARCHING MANUAL
25. DISMISSED

**COLOR GUARD CARD**

1. FALL IN
2. EYES RIGHT
3. LEFT ABOUT
4. MARK TIME
5. LEFT ABOUT
6. RIGHT WHEEL
7. LEFT WHEEL
8. LEFT WHEEL
9. MARK TIME
10. LEFT WHEEL
11. EYES RIGHT
12. LEFT WHEEL
13. DISMISSED





Appendix B: Score Sheets

PLATOON BASIC CARD							
SCHOOL NAME:	* NOTE POINT VALUES CIRCLED WILL BE DEDUCTED FROM MAX SCORE						
SQUAD:	CORRECT EXECUTION				ALIGNMENT COVER		
Drill Time:							
1. FORM THE PLATOON (NORMAL INTERVAL)	0	1	2	3	0	1	2 3
<b>MANUAL OF ARMS</b>							
2. REPORT	0	1	2	3	0	1	2 3
3. OPEN RANKS	0	1	2	3	0	1	2 3
4. LEFT SHOULDER	0	1	2	3	0	1	2 3
5. RIGHT SHOULDER	0	1	2	3	0	1	2 3
6. PORT ARMS	0	1	2	3	0	1	2 3
7. ORDER ARMS	0	1	2	3	0	1	2 3
8. PRESENT ARMS	0	1	2	3	0	1	2 3
9. AT EASE	0	1	2	3	0	1	2 3
10. CLOSE RANKS	0	1	2	3	0	1	2 3
11. CLOSE	0	1	2	3	0	1	2 3
12. FORWARD MARCH	0	1	2	3	0	1	2 3
13. COLUMN RIGHT	0	1	2	3	0	1	2 3
14. HALF STEP	0	1	2	3	0	1	2 3
15. COLUMN RIGHT	0	1	2	3	0	1	2 3
16. TO THE REAR	0	1	2	3	0	1	2 3
17. COLUMN RIGHT	0	1	2	3	0	1	2 3
18. BY THE RIGHT FLANK	0	1	2	3	0	1	2 3
19. BY THE LEFT FLANK	0	1	2	3	0	1	2 3
20. COLUMN LEFT	0	1	2	3	0	1	2 3
21. COLUMN LEFT	0	1	2	3	0	1	2 3
22. LEFT OBLIQUE / MARK TIME	0	1	2	3	0	1	2 3
23. COLUMN LEFT	0	1	2	3	0	1	2 3
<b>MARCHING MANUAL</b>							
24. PORT ARMS	0	1	2	3	0	1	2 3
25. LEFT SHOULDER	0	1	2	3	0	1	2 3
26. RIGHT SHOULDER	0	1	2	3	0	1	2 3
27. COLUMN HALF LEFT	0	1	2	3	0	1	2 3
28. COLUMN HALF LEFT	0	1	2	3	0	1	2 3
29. COLUMN LEFT	0	1	2	3	0	1	2 3
30. EYES RIGHT	0	1	2	3	0	1	2 3
31. DISMISSED	0	1	2	3	0	1	2 3
POINTS DEDUCTED:							
TOTAL POINTS DEDUCTED:							
<b>UNIT LEADER</b>							
POSITION OF UNIT LEADER	0	1	2	3	4	5	
SWORD MANUAL	0	1	2	3	4	5	
COMMAND VOICE	0	1	2	3	4	5	
COMMAND PRESENCE / BEARING	0	1	2	3	4	5	
PROPER COMMANDS	0	1	2	3	4	5	
EYES RIGHT	0	1	2	3	4	5	
				MAX UNIT LEADER SCORE: 30			
				UNIT LEADER SCORE:			
<b>PENALTIES</b>							
TOTAL # OF TEAM MEMBERS ( )				x	5	=	
BOUNDARY BREAK				x	10	=	
				MAX SQUAD SCORE: 186			
Judge's Name:				SQUAD SCORE:			
				TOTAL SCORE:			
Comments:							



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SQUAD BASIC CARD						
SCHOOL NAME:			* NOTE POINT VALUES CIRCLED WILL BE DEDUCTED FROM MAX SCORE			
Drill Time:			CORRECT EXECUTION		ALIGNMENT COVER	
1. FORM THE PLATOON (CLOSE INTERVAL)			0	1	2	3
<b>MANUAL OF ARMS</b>						
2. EXTEND			0	1	2	3
3. ABOUT FACE			0	1	2	3
4. LEFT SHOULDER ARMS			0	1	2	3
5. PORT ARMS			0	1	2	3
6. RIGHT SHOULDER ARMS			0	1	2	3
7. RIFLE SALUTE			0	1	2	3
8. ORDER ARMS			0	1	2	3
9. PARADE REST			0	1	2	3
10. COLUMN RIGHT (HALTED)			0	1	2	3
11. BY THE RIGHT FLANK			0	1	2	3
12. BY THE LEFT FLANK			0	1	2	3
13. TO THE REAR (X2)			0	1	2	3
14. COLUMN RIGHT			0	1	2	3
15. RIGHT OBLIQUE/MARK TIME			0	1	2	3
16. COLUMN LEFT			0	1	2	3
17. CHANGE STEP			0	1	2	3
18. COLUMN LEFT			0	1	2	3
19. LEFT OBLIQUE/HALF STEP			0	1	2	3
20. COLUMN LEFT			0	1	2	3
21. TO THE REAR (X2)			0	1	2	3
22. COLUMN HALF LEFT			0	1	2	3
23. COLUMN HALF LEFT			0	1	2	3
<b>MARCHING MANUAL</b>						
24. PORT ARMS			0	1	2	3
25. LEFT SHOULDER			0	1	2	3
26. RIGHT SHOULDER			0	1	2	3
27. DISMISSED			0	1	2	3
POINTS DEDUCTED:						
TOTAL POINTS DEDUCTED:						
<b>UNIT LEADER</b>						
POSITION OF UNIT LEADER			1	2	3	4
SWORD MANUAL			1	2	3	4
COMMAND VOICE			1	2	3	4
COMMAND PRESENCE / BEARING			1	2	3	4
PROPER COMMANDS			1	2	3	4
EYES RIGHT			1	2	3	4
			MAX UNIT LEADER SCORE: 30			
			UNIT LEADER SCORE:			
<b>PENALTIES</b>						
TOTAL # OF TEAM MEMBERS ( )			x 5 =			
BOUNDARY BREAK			x 10 =			
			MAX SQUAD SCORE: 162			
Judge's Name:			SQUAD SCORE :			
			TOTAL SCORE:			
Comments:						



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COLOR GUARD CARD														
SCHOOL NAME:				* NOTE POINT VALUES CIRCLED WILL BE DEDUCTED FROM MAX SCORE										
Drill Time:				CORRECT EXECUTION				ALIGNMENT COVER						
1. FALL IN				0	1	2	3	0	1	2	3			
2. REPORT				0	1	2	3	0	1	2	3			
3. EYES RIGHT				0	1	2	3	0	1	2	3			
4. LEFT ABOUT				0	1	2	3	0	1	2	3			
5. MARK TIME				0	1	2	3	0	1	2	3			
6. LEFT ABOUT				0	1	2	3	0	1	2	3			
7. RIGHT WHEEL				0	1	2	3	0	1	2	3			
8. LEFT WHEEL				0	1	2	3	0	1	2	3			
9. LEFT WHEEL				0	1	2	3	0	1	2	3			
10. MARK TIME				0	1	2	3	0	1	2	3			
11. LEFT WHEEL				0	1	2	3	0	1	2	3			
12. EYES RIGHT				0	1	2	3	0	1	2	3			
13. LEFT WHEEL				0	1	2	3	0	1	2	3			
14. DISMISSED				0	1	2	3	0	1	2	3			
OVERALL IMPRESSION				0	1	2	3	4	5	6	7	8	9	10
POINTS DEDUCTED:														
TOTAL POINTS DEDUCTED:														
UNIT LEADER														
COMMAND VOICE				1	2	3	4	5						
COMMAND PRESENCE / BEARING				1	2	3	4	5						
PROPER COMMANDS				1	2	3	4	5						
EYES RIGHT				1	2	3	4	5						
				MAX UNIT LEADER SCORE: 20										
				UNIT LEADER SCORE:										
PENALTIES														
BOUNDARY BREAK				_____ x 10 = _____										
				MAX DETAIL SCORE: 94										
Judge's Name:				DETAIL SCORE:										
				TOTAL SCORE:										
Comments:														



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2-MEMBER EXHIBITION EVALUATION										
SCHOOL NAME:	* NOTE POINT VALUES CIRCLED WILL BE DEDUCTED FROM MAX SCORE									
DRILL TIME:										
1. PRECISION	1	2	3	4	5	6	7	8	9	10
2. DIFFICULTY	1	2	3	4	5	6	7	8	9	10
3. MILITARY BEARING	1	2	3	4	5	6	7	8	9	10
4. ORIGINALITY	1	2	3	4	5	6	7	8	9	10
5. VARIETY	1	2	3	4	5	6	7	8	9	10
6. FLOOR COVERAGE	1	2	3	4	5	6	7	8	9	10
7. FLOW OF ROUTINE	1	2	3	4	5	6	7	8	9	10
8. COMPLEXITY	1	2	3	4	5	6	7	8	9	10
9. OVERALL IMPRESSION	1	2	3	4	5	6	7	8	9	10
	TOTAL POINTS DEDUCTED:									
<b>PENALTIES</b>										
TIME UNDER 2 MINUTES	-5									
TIME OVER 4 MINUTES	-5									
BOUNDARY BREAK	_____ X 5 = _____									
DROPPED WEAPONS	_____ X 5 = _____									
	<b>MAX SCORE: 90</b>									
Judge's Name:	TOTAL SCORE :									
Comments:										



**Appendix C: Scoring Matrix**

<b>COMPETITION OVERALL WINNER</b>							
	<b>Unit 1</b>	<b>Unit 2</b>	<b>Unit 3</b>	<b>Unit 4</b>	<b>Unit 5</b>	<b>Unit 6</b>	<b>Unit 7</b>
<b>Rifle</b>							
<b>Pistol</b>							
<b>Platoon Drill</b>							
<b>Squad Drill</b>							
<b>Exhibition</b>							
<b>Color Guard</b>							
<b>Sailing</b>							
<b>Endurance Challenge</b>							
<b>TOTAL POINTS</b>							

Schools' highest placing teams in each event will be assigned points based off of how many units are present. For example, if 7 units are present at the competition, the highest-ranking team in each event will receive 7 points; the second highest-ranking team in each event will receive 6 points; etc.

Schools that do not have a team in a particular event will receive 0 points for that event.



**Appendix D: Awards Ceremony Script**

MC: "Attention"

Official Party Arrives

MC: "Please be seated."

Introduce CO

CO Remarks

MC: "Now we will present the awards."

Rifle: 3<sup>rd</sup> Place, 2<sup>nd</sup> Place, 1<sup>st</sup> Place

Pistol: 3<sup>rd</sup> Place, 2<sup>nd</sup> Place, 1<sup>st</sup> Place

Individual Rifle

Individual Pistol

Platoon Drill: 3<sup>rd</sup> Place, 2<sup>nd</sup> Place, 1<sup>st</sup> Place

Squad Drill: 3<sup>rd</sup> Place, 2<sup>nd</sup> Place, 1<sup>st</sup> Place

Color Guard: 3<sup>rd</sup> Place, 2<sup>nd</sup> Place, 1<sup>st</sup> Place

2-Member Exhibition: 3<sup>rd</sup> Place, 2<sup>nd</sup> Place, 1<sup>st</sup> Place

Nautical Themed Relay: 3<sup>rd</sup> Place, 2<sup>nd</sup> Place, 1<sup>st</sup> Place

Endurance Challenge: 3<sup>rd</sup> Place, 2<sup>nd</sup> Place, 1<sup>st</sup> Place

Wolverine Drill Competition Overall Winner: 3<sup>rd</sup> Place, 2<sup>nd</sup> Place, 1<sup>st</sup> Place

Thank you for coming. We hope that you are able to attend again next year!"



### Appendix E: Maps

#### *Parking*

According to Parking and Transportation Services, buses and coaches may not park anywhere on Central Campus. The driver must let the passengers debus, and then drive to parking lot SC7 on South Campus by the railroad tracks to park the bus. There is no fee and no hang tag or permit required. Specifically the coaches and buses may not park where ROTC vans park behind North Hall, as that impedes emergency access and would be a safety violation.

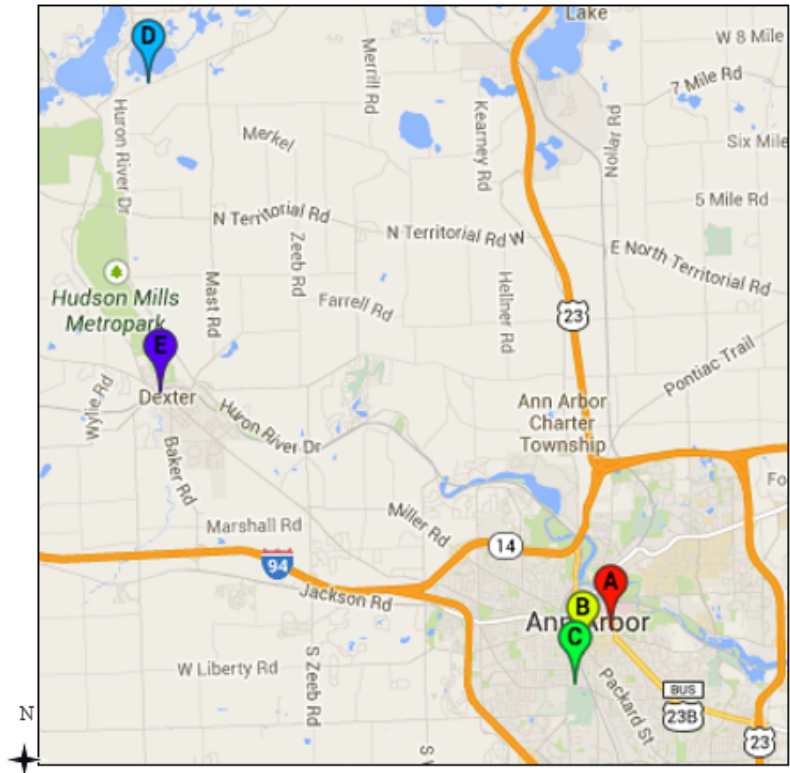
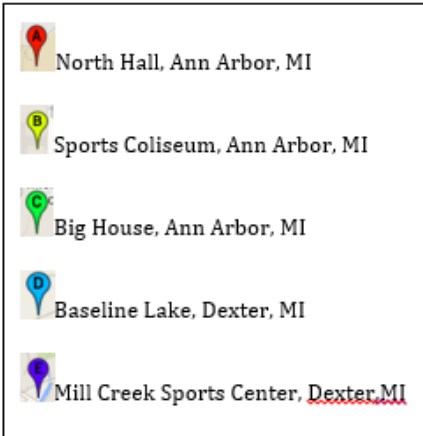


Parking lot SC7. Scan down to "19" on the left, then look right. The large orange segment marked with a star and labeled "SC7" is where buses should park.



### Event Orientation

The majority of events are centered around North Hall at the University of Michigan in Ann Arbor, MI. Events that take place off campus are the Sailing Regatta and Rifle/Pistol Competition.



### Addresses and Parking

North Hall: Located at **1105 N University, Ann Arbor, MI 48109**. Parking is available in the Palmer Parking Structure on Palmer Dr, Ann Arbor, MI 48109.

Sports Coliseum: Located at **721 S. Fifth Ave, Ann Arbor, MI 48104**. Parking is available in the lot adjacent to the building.

Baseline Lake: Located at **8010 Strawberry Lake Rd, Dexter, MI 48130**. Parking is available in the lot above the clubhouse.


Mill Creek Sports Center: Located at **8180 Main Street, Dexter, MI 48130**. The range provides parking.








*Directions From North Hall to the Sports Coliseum*

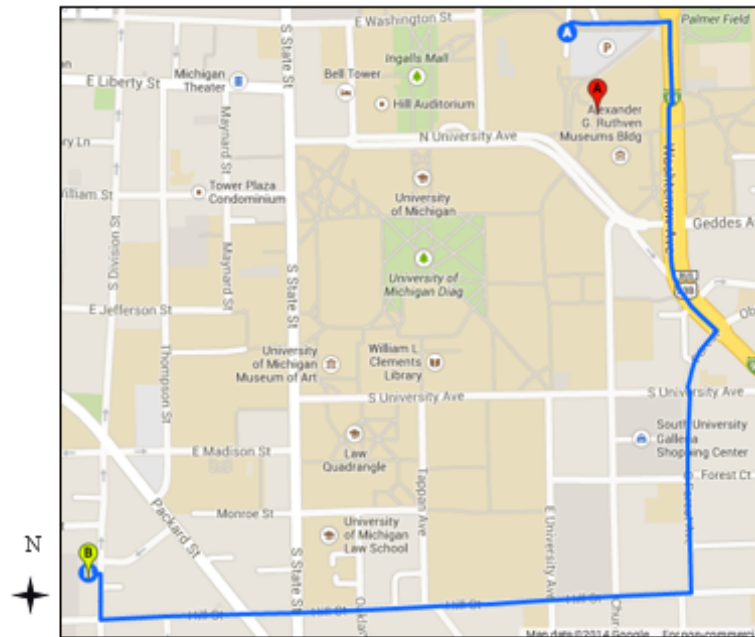
The drive from the Palmer Parking Structure to the Sports Coliseum is 1.4 miles.








 North Hall, Ann Arbor, MI

 Sports Coliseum, Ann Arbor, MI

 Palmer Parking Structure

 Route

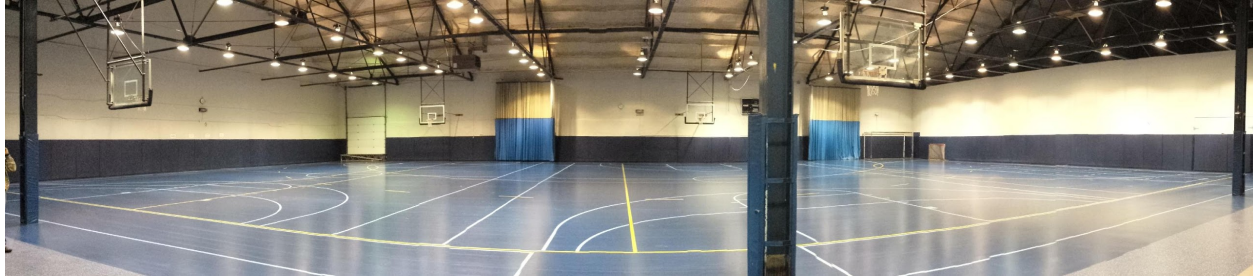


-  Palmer Drive, University of Michigan, Ann Arbor, MI 48104, USA
- Head north toward Palmer Dr
- 56 ft
- Take the 1st right onto Palmer Dr
- 515 ft
-  Turn right onto Washtenaw Ave
- 0.321 mi
-  Turn right onto Forest
- 0.266 mi
-  Turn right onto Hill St
- 0.581 mi
-  Turn right onto S Division St
- 240 ft
-  Turn left
- 62 ft
-  721 South 5th Avenue, Ann Arbor, MI 48104, USA



*Sports Coliseum Facility*


The Sports Coliseum facility consists of 2.5 basketball courts. Basketball hoops are unable to be lifted. Note that competition boundaries will be set so that basketball hoops and poles should not interfere with the events. A panoramic view can be seen below:








*Directions From the Sports Coliseum to the Big House*

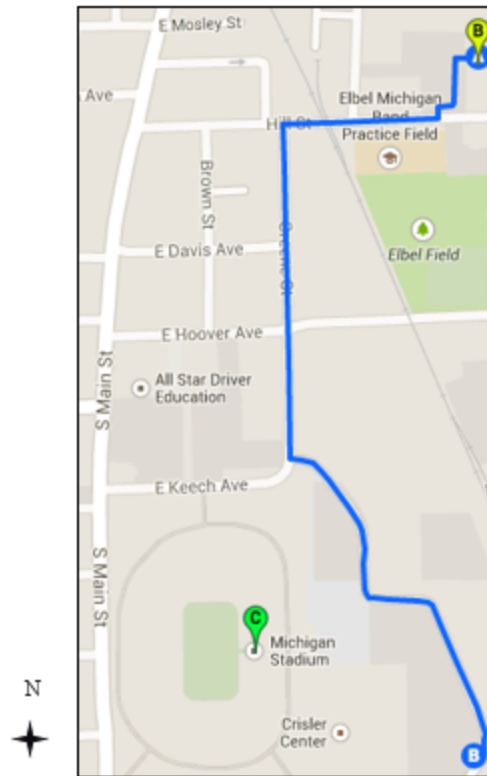
The drive from the Sports Coliseum to the Big House is 0.7 miles.

 Sports Coliseum, Ann Arbor, MI

 Big House, Ann Arbor, MI

 Parking for Buses (Lot SC7)

 Route



○ 721 S 5th Ave

Ann Arbor, MI 48104

- ↑ 1. Head south on S 5th Ave toward Hill St
- ↘ 2. Turn right onto Hill St
- ↙ 3. Take the 1st left onto Greene St
- ↙ 4. Turn left onto Kipke Dr
- ↘ 5. Slight right
- ↙ 6. Slight left

⊙ 401 E Stadium Blvd

Ann Arbor, MI 48104



*Directions from North Hall to Baseline Lake*

The drive from Palmer Parking Structure to Baseline Lake is 17.7 mi.

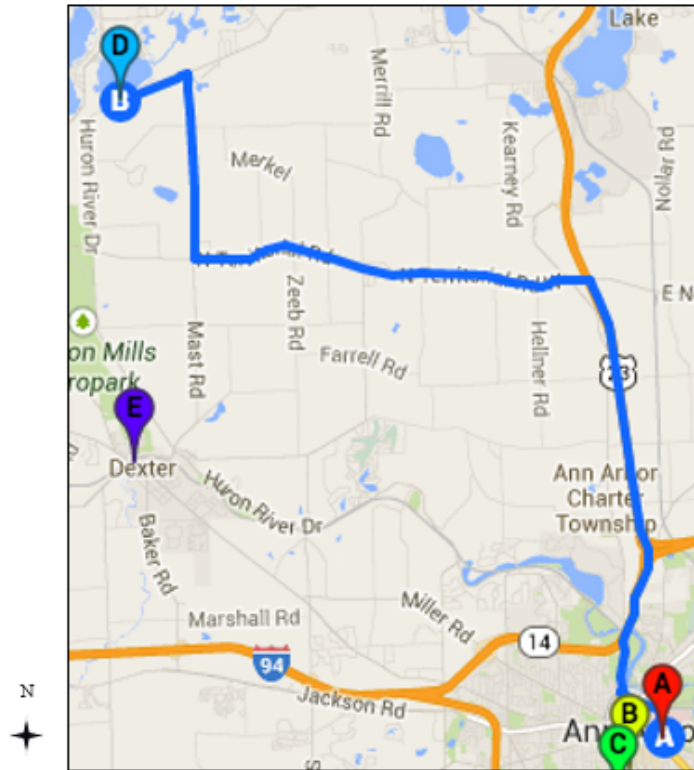
North Hall, Ann Arbor, MI  
 Baseline Lake, Dexter, MI  
 Palmer Parking Structure  
 Route

Palmer Drive Parking Structure, Palmer Dr

Ann Arbor, MI 48104

- ↑ Head east on Palmer Dr toward Washtenaw Ave  
98 ft / 2 s
- ⚡ Take US-23 N, E North Territorial Rd, N Territorial Rd and Mast Rd to Strawberry Lake Rd in Webster  
16.5 mi / 23 min
- ↩ 2. Turn left onto Washtenaw Ave  
397 ft
- ↑ 3. Continue onto E Huron St  
482 ft
- ↘ 4. Turn right onto Glen Ave  
0.3 mi
- ↩ 5. Turn left onto Fuller St  
0.3 mi
- ↑ 6. Continue onto Depot St  
0.4 mi
- ↘ 7. Turn right onto US-23 BUS N/N Main St  
0.7 mi
- 🚶 8. Take the ramp onto M-14 E/US-23 BUS N  
1.3 mi
- ↩ 9. Take the exit on the left onto US-23 N toward Brighton/Flint  
4.3 mi
- ↘ 10. Take exit 49 for N Territorial Rd  
0.1 mi
- ↩ 11. Turn left onto E North Territorial Rd  
4.0 mi
- ↑ 12. Continue onto N Territorial Rd  
2.1 mi
- ↘ 13. Turn right onto Mast Rd  
1.1 mi / 3 min
- ↩ Turn left onto Strawberry Lake Rd  
Destination will be on the left

© 8010 Strawberry Lake Rd  
Dexter, MI 48130





*Directions from North Hall to Mill Creek Sports Center*

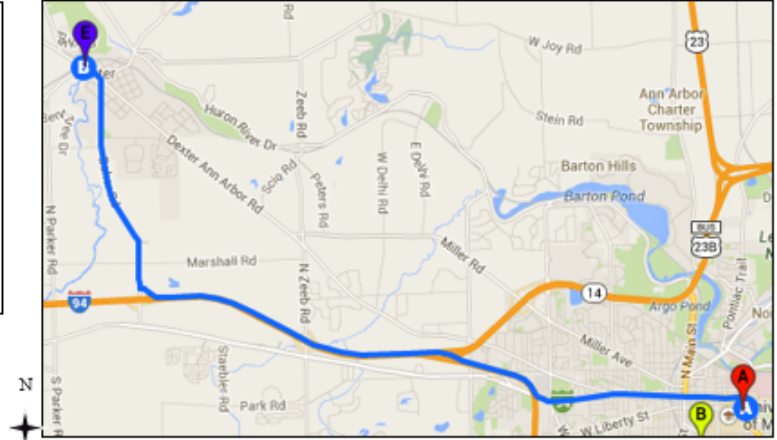
The drive from Palmer Parking Structure to Mill Creek Sports Center is 10.7 mi.

North Hall, Ann Arbor, MI

Mill Creek Sports Center, Dexter, MI

Palmer Parking Structure

Route



○ Palmer Drive Parking Structure,  
Palmer Dr

Ann Arbor, MI 48104

- ↑ Head east on Palmer Dr toward Washtenaw Ave  
98 ft / 2 s
- ↶ Turn left onto Washtenaw Ave  
397 ft / 1 min
- ≡ Get on I-94 W  
2.8 mi / 6 min
- ≡ Follow I-94 W to Baker Rd in Scio. Take exit 167 from I-94 W  
5.0 mi / 4 min
- ↗ Follow Baker Rd to Main St  
2.9 mi / 5 min
- ↗ 7. Turn right onto Baker Rd  
2.7 mi
- ↶ 8. Turn left onto Ann Arbor St  
118 ft
- ↑ 9. Continue onto Main St  
0.2 mi

◎ Mill Creek Sport Center  
8180 Main St, Dexter, MI 48130



Appendix F: Wolverine Drill Competition Time Matrix

Fri, 11 APR	
Rifle/Pistol	Start Time
UM Rifle A	1000
Event End	1050
UM Pistol	1055
Event End	1100
USC Rifle	1105
Event End	1155
USC Pistol	1200
Event End	1205
OSU Rifle	1210
Event End	1300
OSU Pistol	1305
Event End	1310
Purdue Rifle	1315
Event End	1405
Purdue Pistol	1410
Event End	1415
Minnesota Rifle	1420
Event End	1510
Minnesota Pistol	1515
Event End	1520
UM Rifle B	1525
End competition	1615
Event Overflow Times	Start
	1900
	1930
	2000
	2030



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Sat, 12 APR	Platoon Drill	Squad Drill	Color Guard	Exhibition	Endurance Challenge	Sailing
600	Team Captains Brief					
700					OSU (1), Purdue	
715						
730		IIT	IIT		USC, UM (1)	
745						
800		Northwestern	Northwestern		OSU (2), Minnesota	
815						
830	UM			Minnesota (1)	IIT (1), UM (2)	
845						
900		USC	Minnesota (1)		Northwestern, IIT (2)	UM (1)
915				Minnesota (2)		
930	USC					
945				UM		
1000	Minnesota					USC
1015				USC		
1030		UM	USC			
1045						
1100		Minnesota	OSU			UM (2)
1115						
1130						
1145		Purdue	Minnesota (2)			
1200						
1215		OSU	Purdue			
1230						
1245			UM	Purdue		
1300						
1315						
1330						
1345						
1400	AWARDS CEREMONY					



## Appendix G: Operational Risk Management

28 MAR 14

MEMORANDUM

From: MIDN 1/C Lippie, E. C., *Wolverine Drill Competition Coordinator*

To: MSgt Flores, L. J., *Assistant Marine Officer Instructor*

Subj: UNIVERSITY OF MICHIGAN DRILL COMPETITION WINTER 2014 OPERATION RISK  
MANAGEMENT

### 1. Midshipman Emergency Information.

- A. Each NROTC unit attending the Wolverine Drill Competition needs to have the following information for every MIDN participating in an event during the competition. This information should be on-hand at every event site during the competition.
  - 1) Insurance information
  - 2) Emergency POC
  - 3) Blood type
  - 4) Allergies
- B. Every MIDN participating in the Wolverine Drill Competition needs to have the following items on their person at all times during the competition
  - 1) Photo ID
  - 2) Insurance card
- C. If a MIDN has any emergency medications (i.e. EpiPen, Inhaler, etc.), these medications need to be on-hand at the appropriate event site, in case of emergency.

### 2. Platoon Basic and Squad Basic:

- A. If any competitor falls out during the time of the Platoon Basic Drill Competition or the Squad Basic Drill Competition the following procedures will take place.
- B. The Drill Commander or Squad Leader will immediately halt the squad and will only resume competition when given word by a judge. A staff member will assist the fallen competitor.
- C. A Corpsman or staff member will treat the competitor as needed. If further medical attention is required 911 emergency services will be used or the Competitor will be loaded into the safety van and taken to the University of Michigan Medical Center. Directions are as follows.
- D. University of Michigan Health System
  - 1500 East Medical Center Drive
  - Ann Arbor, Michigan 48109
  - Phone Number: 734-936-4000

Directions from the Sports Coliseum.

- 1) Turn left onto Hill St (0.7 miles)
- 2) Turn left onto S Forest Ave (0.3 miles)
- 3) Continue onto Observatory St (0.4 miles)





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- 4) Turn right onto E Medical Center Dr (0.1 miles)
- 5) Make a U-turn. Destination will be on the right.

E. The Drill Commander or Squad Leader will be given the word or further instruction from the judges to continue on with the competition.

3. 2-Member Exhibition:

- A. If any competitor falls out during the time of the 2-Member Exhibition event the following procedures will take place.
- B. The team members will immediately halt exhibition routine. A staff member will assist the fallen competitor.
- C. A Corpsman or staff member will treat the competitor as needed. If further medical attention is required 911 emergency services will be used or the Competitor will be loaded into the safety van and taken to the University of Michigan Medical Center. Directions are as follows.
- D. University of Michigan Health System  
1500 East Medical Center Drive  
Ann Arbor, Michigan 48109  
Phone Number: 734-936-4000

Directions from the Sports Coliseum.

- 1) Turn left onto Hill St (0.7 miles)
- 2) Turn left onto S Forest Ave (0.3 miles)
- 3) Continue onto Observatory St (0.4 miles)
- 4) Turn right onto E Medical Center Dr (0.1 miles)
- 5) Make a U-turn. Destination will be on the right.

4. Color Guard:

- A. If any midshipman falls out of the color guard event or while moving from one event area to the next, the following procedures will take place.
- B. The color guard commander conducting drill will halt the unit and will only resume competition when given word by a judge. A staff member will assist the fallen competitor.
- C. The corpsman will treat the midshipman as needed. If further medical attention is required, 911 emergency services will be used or the midshipman will be loaded into the safety van and taken to University of Michigan Health System.
- D. University of Michigan Health System  
1500 East Medical Center Drive  
Ann Arbor, Michigan 48109  
Phone Number: 734-936-4000

Directions from the Sports Coliseum:

- 1) Turn left onto Hill St (0.7 miles)
- 2) Turn left onto S Forest Ave (0.3 miles)
- 3) Continue onto Observatory St (0.4 miles)
- 4) Turn right onto E Medical Center Dr (0.1 miles)
- 5) Make a U-turn. Destination will be on the right.

5. Endurance Challenge:

- A. This plan shall be activated in the event of any injury, mishap, or



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- emergency encountered during the Drill Competition Endurance Challenge.
- B. In all situations, the Battalion Staff will notify the Unit Staff present while ensuring that all personnel are out of harm's way. The situation will then be further evaluated to determine the proper response.
  - C. Injuries will be handled in the following manner: Battalion Corpsman will evaluate the severity of the injury and treat it if minor. In the event of an injury the Corpsman is unable to treat, the injured personnel will be transported to the nearest medical facility.
  - D. Emergencies requiring immediate action will be handled in the following manner: the Unit Staff member on site will contact EMS by dialing 911 on the duty phone while the Battalion Corpsman attempts to stabilize the injured individual.
  - E. The medical kit containing first aid devices will be staged in North Hall.
  - F. The Corpsman will be in radio and cell phone contact with the proctors during the entirety of the event.
  - G. The nearest medical facility is less than 1.5 miles away (less than 5 minutes), located at:

University of Michigan Health System  
1500 East Medical Center Drive  
Ann Arbor, Michigan 48109  
Phone Number: 734-936-4000

Directions from the rear parking lot behind North Hall:

- 1) Left on Washtenaw Avenue (0.1 miles)
- 2) Right on Zina Pitcher Place (0.1 miles)
- 3) Right on Ann Street (0.1 miles)
- 4) End at Hospital

- H. If the midshipman is clear to resume training then he/she will return to their team and report in directly to the Event Coordinator as soon as they return in order to obtain accurate accountability for each team.

I. Extreme Weather Considerations

- 1) "Extreme Weather" will be defined as the following:
  - a) A temperature index less than 15 °F
  - b) A temperature index greater than 100 °F
  - c) Visible lightning
  - d) Presence of heavy icing on roads or run route
  - e) Heavy rain, which may cause slippery conditions on roads or run route
- 2) If any of the criterion listed above occur before or during the event, the endurance challenge must be postponed, cancelled, or moved indoors.
- 3) In the event of lightning within a 10 mile radius, the event must be postponed. The event will be deemed safe for continuation after 45 minutes have passed without any observance of another lightning strike.
- 4) In the event of heavy rain or snow, heavy icing, or extreme temperatures, the event will be postponed and weather reports will



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be monitored in order to determine the length of time the postponement must continue in accordance with the general Drill Competition ORM.

- J. Contingency Plans for the Endurance Challenge: For foul weather during the competition, the alternate order of events in the SOP will be executed. Should any other scenario occur which results in some form of injury, the pre-mishap plan will be carried out.
- K. Run Route Surveillance
- 1) At least one hour prior to the event, the endurance challenge coordinator must survey the run route and check for any icing or other safety concerns.
  - 2) If no evidence of icing or other route obstruction is observed, then the event may continue as planned. If such evidence is found, then the obstruction must be cleared or the event relocated.
- L. Proctors
- 1) Each team will have at least one proctor assigned to them.
  - 2) The proctor must carry a cell phone or other means of quick communication to use in case of emergency.
  - 3) The proctor must carry a full water bottle.
  - 4) The proctor will wear an orange reflective vest and act as road guard at all traffic crossings. The proctor will take post, safely stop traffic, and notify the team when it is clear to cross. Any team violating these traffic rules should be disqualified.
  - 5) The proctor will also observe general safety proceedings and exercise a training timeout if he or she feels that it is necessary. The proctor must report any observance of run route obstruction.
  - 6) In the event of an emergency, the proctor will stop the team, radio the corpsman, and evaluate if the casualty can be moved safely.
    - a) If so, the casualty will be transported to side of the nearest road and await the duty van to be moved to the hospital.
    - b) If not, the proctor will await the arrival of the corpsmen and a stretcher to move the casualty to the duty van.
- M. Duty Vans
- 1) At least one duty van will be staged at the base of Hospital Hill or on Geddes St. at the Arb entrance.
  - 2) The driver of the duty van must be either a MECEP, OC, or Unit Staff member.
  - 3) The driver of the duty van must carry a cell phone and radio.
  - 4) The duty van must contain a case of bottled water and an emergency first aid kit.
  - 5) In case of a serious casualty of one of the team members, the duty van driver will provide first response medical aid and either drive the injured team member to the nearest hospital as outlined in the general Drill Competition ORM or call 911.
- N. Scenarios. The following are the possible scenarios that may present a danger before, during, or after the competition. This section addresses the risk and how to handle each situation.
- 1) Weather. Temperature, humidity, lightning, and inclement weather will result in moving the physical training from outside to the hold. Midshipmen will wait in the wardroom until their



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fire team is signaled to begin the alternate competition.

2) Traffic. Teams must wait for the proctor to stand post in the street and signal them across. The proctor will be wearing an orange safety vest. Additionally, a van will be parked in the rear parking lot ready to pick up run drops and address any safety issues incurred during the competition. The corpsman will stay with the van for quick transportation.

3) Casualties. In the case of emergency, unit staff will handle and assess incidences. In the case of minor emergencies only those unit and battalion staff members qualified in CPR and First Aid will address the casualty. When the casualty is outside of the scope of the unit and battalion staff, the Battalion Corpsman will be notified to address the casualty. In the case of serious emergencies 911 will be called immediately and the casualty will be transported to the University of Michigan Hospital in the medical van. The chain of command will be immediately notified.

6. Sailing Competition:

- A. Hazards that are identified for this competition are hypothermia, head injury, heat injury (overexposure to the sun), and drowning. Our Risk Controls are to have fluids on hand, have a designated qualified lifeguard observing the competition, promulgate a list of clothing based on weather conditions, utilize a safety boat, have lifejackets/helmets for all participants and a supply of sunscreen (when applicable), and to not allow excessive exposure to low temperatures without proper attire.
- B. Risk Controls will be implemented before and during event and will be supervised by designated staff.
- C. In the unlikely event of an emergency, at least one government van will be standing by for transportation to a medical facility.

University of Michigan Health System  
1500 East Medical Center Drive  
Ann Arbor, Michigan 48109  
Phone Number: 734-936-4000

Directions:

- 1) Head northeast on Strawberry Lake Rd toward Base Lake Dr
- 2) Take the 1<sup>st</sup> right onto Mast Rd (2.8 miles)
- 3) Turn left onto N Territorial Rd (6.0 miles)
- 4) Turn right to merge onto US-23 S (4.1 miles)
- 5) Take exit 45 to merge onto M-14 W/US-23 BUS S (1.5 mi)
- 6) Take exit 3 to merge onto US-23 BUS S/N Main St (0.9 mi)
- 7) Turn left onto Depot St (0.4 miles)
- 8) Continue onto Fuller St (0.3 miles)
- 9) Turn left onto Fuller Rd (0.2 miles)
- 10) Turn right onto E Medical Center Dr (0.3 miles)
- 11) Destination will be on the right

D. Extreme Weather Considerations

- 1) "Extreme Weather" will be defined as the following:
  - a) A temperature index less than 15 °F
  - b) A temperature index greater than 100 °F



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- c) Visible lightning
  - d) Presence of heavy icing on roads or run route
  - e) Heavy rain, which may cause slippery conditions on roads or run route
  - f) If any of the criterion listed above occur before or during the event, the endurance challenge must be postponed, cancelled, or moved indoors.
- 2) In the event of lightning within a 10 mile radius, the event must be postponed. The event will be deemed safe for continuation after 45 minutes have passed without any observance of another lightning strike.
- 3) In the event of heavy rain or snow, heavy icing, or extreme temperatures, the event will be postponed and weather reports will be monitored in order to determine the length of time the postponement must continue in accordance with the general Drill Competition ORM.

7. Nautical Themed Relay:

- A. Hazards that are identified for this competition are hypothermia, head injury, and heat injury (overexposure to the sun). Our Risk Controls are to have fluids on hand, forbid participants from entering the lake, promulgate a list of clothing based on weather conditions, have a supply of sunscreen (when applicable), and to not allow excessive exposure to low temperatures without proper attire.
- B. Risk Controls will be implemented before and during the event and will be supervised by designated staff.
- C. In the unlikely event of an emergency, at least one government van will be standing by for transportation to a medical facility.

University of Michigan Health System  
1500 East Medical Center Drive  
Ann Arbor, Michigan 48109  
Phone Number: 734-936-4000

Directions:

- 1) Head northeast on Strawberry Lake Rd toward Base Lake Dr
- 2) Take the 1<sup>st</sup> right onto Mast Rd (2.8 miles)
- 3) Turn left onto N Territorial Rd (6.0 miles)
- 4) Turn right to merge onto US-23 S (4.1 miles)
- 5) Take exit 45 to merge onto M-14 W/US-23 BUS S (1.5 mi)
- 6) Take exit 3 to merge onto US-23 BUS S/N Main St (0.9 mi)
- 7) Turn left onto Depot St (0.4 miles)
- 8) Continue onto Fuller St (0.3 miles)
- 9) Turn left onto Fuller Rd (0.2 miles)
- 10) Turn right onto E Medical Center Dr (0.3 miles)
- 11) Destination will be on the right

D. Extreme Weather Considerations

- 1) "Extreme Weather" will be defined as the following:
  - a) A temperature index less than 15 °F
  - b) A temperature index greater than 100 °F
  - c) Visible lightning



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- d) Presence of heavy icing
- e) Heavy rain

2) If any of the criterion listed above occur before or during the event, the event must be postponed, cancelled, or moved indoors.

3) In the event of lightning within a 10 mile radius, the event must be postponed. The event will be deemed safe for continuation after 45 minutes have passed without any observance of another lightning strike.

4) In the event of heavy rain or snow, heavy icing, or extreme temperatures, the event will be postponed and weather reports will be monitored in order to determine the length of time the postponement must continue in accordance with the general Drill Competition ORM.

8. Rifle and Pistol Competition:

A. Location of nearest medical facility: In the event any participant or supervisor is requires immediate medical attention in the process of this competition, they will be transported via safety van to the University of Michigan Medical Center, Ann Arbor, MI.

- 1) Exit left out of Mill Creek Sports center onto Main Street.
- 2) Take a quick right on Baker Road and drive 2.9 Miles to I-94 Eastbound.
- 3) Take I-94 Eastbound for 4.6 miles, and exit 172 toward Ann Arbor.
- 4) Follow Jackson road for 3 miles, take a left on Glen Ave.
- 5) Follow Glen Ave. to East Medical Center Dr, and follow the directions to the emergency room.

B. Pre-Event Risk assessment.

- 1) Prior to the shooting event, a risk assessment will be made to determine if the event may proceed, or whether it must be canceled or delayed.
- 2) The event may delayed only in cases of heavy snow or rain that would prohibit transit to the event.

C. Pre-Event Risk Prevention: Prior to the event, pre-event risk prevention measures will be put in place. These measures will include the following.

- 1) Prior to the event, a range safety instruction packet will be sent to each visiting school. This packet will be similar to the range safety brief mentioned in section 4.
- 2) Each team will be asked to clean and service their weapons prior to attending the event to prevent weapon misfires.

D. Event Risk Prevention: During the event, these risk prevention measures will be put in place to minimize the chance on injury at the event.

- 1) Range officials will give a range safety brief in accordance with Navy/Marine Corps safety standards.
- 2) During the event, if any participant violates range safety rules, they will be disqualified from the competition and expelled from the range. Participants will be expected to always conduct themselves in a professional and safe manner.

E. Event Delays. In the event that the competition must be stopped



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during execution, the following procedure will be followed.

- 1) Determine cause of delay
- 2) Make estimate for how long the delay will last, use resources such as weather reports to assist.
- 3) If the estimated delay is for more than 1 hour, contact teams that have not yet arrived, and inform them of the delay.
- 4) If the estimated delay is for more than 2 hours, release teams who are present, but remain in contact in order to quickly restart the event.
- 5) If the delay does last for a significant period of time, cancel the event for the day.

F. Spectator Risk Prevention: During the course of the event, spectators and other observers may be present on the range. Spectators will be expected to adhere to all range safety rules in addition to the following.

- 1) Spectators will be required to stay a reasonable distance behind the firing zone, as determined by the range officer.
- 2) Photographers will be allowed into the firing zone with permission from their team and range officials. They must not distract the shooters. Photographers may not use camera flashes during live fire.
- 3) Any distraction caused by observers that is determined to be a safety hazard will be immediately removed from the shooting area.

Very respectfully,

E. C. Lippie



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Appendix H: Operational Risk Management Worksheets

Mission: University of Michigan Wolverine Drill Competition			Date Worksheet Prepared: 24 MAR 2014		Date Worksheet Reviewed:		
Step 1. Identify Hazards			Step 2. Assess Hazards	Step 3. Make Risk Decisions		Step 4. Implement Controls	Step 5. Supervise
	Hazards	Causes	Initial RAC	Develop Controls	Residual RAC	How to Implement	How to Supervise
<b>Platoon Basic and Squad Basic Drill Competition</b>	<ul style="list-style-type: none"> <li>▪ Fatigue/Fainting</li> <li>▪ Head injury</li> <li>▪ Lower body injury</li> <li>▪ Upper body injury</li> <li>▪ Tripping</li> <li>▪ Falling</li> </ul>	<ul style="list-style-type: none"> <li>▪ Temperature</li> <li>▪ Weather</li> <li>▪ Lack of water intake</li> <li>▪ Obstacles on drill deck</li> <li>▪ Loose footing</li> <li>▪ Limited visibility</li> <li>▪ Improper equipment</li> <li>▪ Lack of coordination</li> <li>▪ Improper Uniform</li> <li>▪ Poor Fitness</li> <li>▪ Lack of Preparation</li> <li>▪ Nerves</li> </ul>	3	<ul style="list-style-type: none"> <li>▪ Develop alternate drill decks plans based on the weather/temperature (indoors/outdoors)</li> <li>▪ Promulgate list of appropriate uniform based on weather conditions</li> <li>▪ Have a designated non-participating person observe the competition and watch for signs of injury and remove the injured participant from competition</li> <li>▪ Conduct a detailed brief for the boundaries before conduct of the drill meet.</li> <li>▪ Use a well lighted area during periods of darkness</li> <li>▪ Have water readily available to all teams</li> </ul>	5	<ul style="list-style-type: none"> <li>▪ Ensure all equipment and training is conducted IAW the pre-mishap safety plan</li> <li>▪ Ensure that all participants know the location of the safety equipment and the pre-mishap safety plans.</li> <li>▪ Ensure a duty van is on call in the area of the drill deck in case of emergency</li> </ul>	<ul style="list-style-type: none"> <li>▪ The MOI/AMOI or the required amount of Staff members will be on hand for all Company drill sessions to satisfy the Pre-mishap safety plan requirements</li> </ul>
					Accept Risks: YES NO <u>Comm</u> with Higher: YES NO	Lessons Learned:	

Mission: University of Michigan Wolverine Drill Competition			Date Worksheet Prepared: 24 MAR 2014		Date Worksheet Reviewed:		
Step 1. Identify Hazards			Step 2. Assess Hazards	Step 3. Make Risk Decisions		Step 4. Implement Controls	Step 5. Supervise
	Hazards	Causes	Initial RAC	Develop Controls	Residual RAC	How to Implement	How to Supervise
<b>2-Member Exhibition Drill</b>	<ul style="list-style-type: none"> <li>▪ Weapon Mishandling</li> <li>▪ Fatigue/Fainting</li> <li>▪ Head injury</li> <li>▪ Lower body injury</li> <li>▪ Upper body injury</li> <li>▪ Tripping</li> <li>▪ Falling</li> </ul>	<ul style="list-style-type: none"> <li>▪ Temperature</li> <li>▪ Weather</li> <li>▪ Lack of water intake</li> <li>▪ Obstacles on drill deck</li> <li>▪ Loose footing</li> <li>▪ Limited visibility</li> <li>▪ Improper equipment</li> <li>▪ Lack of coordination</li> <li>▪ Improper Uniform</li> <li>▪ Poor Fitness</li> <li>▪ Lack of Preparation</li> <li>▪ Nerves</li> </ul>	3	<ul style="list-style-type: none"> <li>▪ Develop alternate drill decks plans based on the weather/temperature (indoors/outdoors)</li> <li>▪ Promulgate list of appropriate uniform based on weather conditions</li> <li>▪ Have a designated non-participating person observe the competition and watch for signs of injury and remove the injured participant from competition</li> <li>▪ Conduct a detailed brief for the boundaries before conduct of the drill meet.</li> <li>▪ Use a well lighted area during periods of darkness</li> <li>▪ Have water readily available to all teams</li> </ul>	5	<ul style="list-style-type: none"> <li>▪ Ensure all equipment and training is conducted IAW the pre-mishap safety plan</li> <li>▪ Ensure that all participants know the location of the safety equipment and the pre-mishap safety plans.</li> <li>▪ Ensure a duty van is on call in the area of the drill deck in case of emergency</li> </ul>	<ul style="list-style-type: none"> <li>▪ The MOI/AMOI or the required amount of Staff members will be on hand for all Company drill sessions to satisfy the Pre-mishap safety plan requirements</li> </ul>
					Accept Risks: YES NO <u>Comm</u> with Higher: YES NO	Lessons Learned:	





# The University of Michigan Naval ROTC Wolverine Drill Competition



Mission: University of Michigan Wolverine Drill Competition			Date Worksheet Prepared: 24 MAR 2014		Date Worksheet Reviewed:		
Step 1. Identify Hazards			Step 2. Assess Hazards	Step 3. Make Risk Decisions		Step 4. Implement Controls	Step 5. Supervise
	Hazards	Causes	Initial RAC	Develop Controls	Residual RAC	How to Implement	How to Supervise
<b>Color Guard Competition</b>	<ul style="list-style-type: none"> <li>▪ Fatigue/Fainting</li> <li>▪ Head injury</li> <li>▪ Lower body injury</li> <li>▪ Upper body injury</li> <li>▪ Tripping</li> <li>▪ Falling</li> </ul>	<ul style="list-style-type: none"> <li>▪ Temperature</li> <li>▪ Weather</li> <li>▪ Lack of water intake</li> <li>▪ Obstacles on drill deck</li> <li>▪ Loose footing</li> <li>▪ Limited visibility</li> <li>▪ Improper equipment</li> <li>▪ Lack of coordination</li> <li>▪ Improper Uniform</li> <li>▪ Poor Fitness</li> <li>▪ Lack of Preparation</li> <li>▪ Nerves</li> </ul>	3	<ul style="list-style-type: none"> <li>▪ Develop alternate drill decks plans based on the weather/temperature (indoors/outdoors)</li> <li>▪ Promulgate list of appropriate uniform based on weather conditions</li> <li>▪ Have a designated non-participating person observe the competition and watch for signs of injury and remove the injured participant from competition</li> <li>▪ Conduct a detailed brief for the boundaries before conduct of the drill meet.</li> <li>▪ Use a well lighted area during periods of darkness</li> <li>▪ Have water readily available to all teams</li> </ul>	5	<ul style="list-style-type: none"> <li>▪ Ensure all equipment and training is conducted IAW the pre-mishap safety plan</li> <li>▪ Ensure that all participants know the location of the safety equipment and the pre-mishap safety plans.</li> <li>▪ Ensure a duty van is on call in the area of the drill deck in case of emergency</li> </ul>	<ul style="list-style-type: none"> <li>▪ The MOI/AMOI or the required amount of Staff members will be on hand for all drill competitions events to satisfy the pre-mishap safety plan requirements</li> </ul>
				Accept Risks: YES NO Comm with Higher: YES NO		Lessons Learned:	

Mission: University of Michigan Wolverine Drill Competition			Date Worksheet Prepared: 22 MAR 2014		Date Worksheet Reviewed:		
Step 1. Identify Hazards			Step 2. Assess Hazards	Step 3. Make Risk Decisions		Step 4. Implement Controls	Step 5. Supervise
	Hazards	Causes	Initial RAC	Develop Controls	Residual RAC	How to Implement	How to Supervise
<b>Endurance Challenge</b>	<ul style="list-style-type: none"> <li>▪ Head injury</li> <li>▪ Lower body injury</li> <li>▪ Back injury</li> <li>▪ Arm injury</li> <li>▪ Heat injury</li> <li>▪ Cold injury</li> <li>▪ Tripping</li> <li>▪ Fall</li> <li>▪ Traffic</li> </ul>	<ul style="list-style-type: none"> <li>▪ Lack of water intake</li> <li>▪ Improper clothing</li> <li>▪ Fatigue</li> <li>▪ Poor fitness</li> <li>▪ Poor visibility</li> <li>▪ Temperature</li> <li>▪ High Humidity</li> <li>▪ Weather</li> <li>▪ Loose Footing</li> <li>▪ Traffic</li> <li>▪ Lack of Coordination</li> </ul>	2	<ul style="list-style-type: none"> <li>▪ Warm up properly</li> <li>▪ Require each member to bring camelback and/or canteen. Four 5 gallon water jugs will be provided along the course.</li> <li>▪ Maintain radio/cell phone contact with proctors, road guards, and corpsman</li> <li>▪ Have a designated CPR qualified, non-participating person observe the training and watch for signs of injury and remove the injured participant from training</li> <li>▪ Conduct a detailed brief for the proctors and a route familiarization run prior to the race</li> <li>▪ Utilize road guards at all road crossings.</li> <li>▪ Promulgate list of appropriate clothing based on weather conditions</li> <li>▪ Provide instruction on hydration</li> <li>▪ Conduct a detailed brief for all hands to ensure the route is fully understood.</li> <li>▪ Give a detailed brief on each event of the competition and ensure that all individuals understand the proper techniques to be utilized.</li> <li>▪ Utilize 2 safety vehicles.</li> </ul>	5	<ul style="list-style-type: none"> <li>▪ Ensure all equipment and training is conducted IAW the pre-mishap safety plan</li> <li>▪ Ensure that all participants know the location of the safety equipment and the pre-mishap safety plans.</li> <li>▪ Ensure that the Event Captain understands their billet and responsibilities</li> </ul>	<ul style="list-style-type: none"> <li>▪ The Professional Staff will be on hand for the Endurance Competition to satisfy the Pre-mishap plan requirements</li> </ul>
				Accept Risks: YES NO Comm with Higher: YES NO		Lessons Learned:	



The University of Michigan Naval ROTC  
Wolverine Drill Competition



Mission: University of Michigan Wolverine Drill Competition			Date Worksheet Prepared: 24 MAR 2014		Date Worksheet Reviewed:		
Step 1. Identify Hazards			Step 2. Assess Hazards	Step 3. Make Risk Decisions		Step 4. Implement Controls	Step 5. Supervise
	Hazards	Causes	Initial RAC	Develop Controls	Residual RAC	How to Implement	How to Supervise
<b>Sailing</b>	<ul style="list-style-type: none"> <li>▪ Head injury</li> <li>▪ Hypothermia</li> <li>▪ Heat injury</li> <li>▪ Drowning</li> </ul>	<ul style="list-style-type: none"> <li>▪ Boom Strikes</li> <li>▪ Improper clothing</li> <li>▪ Lack of hydration</li> <li>▪ Temperature</li> <li>▪ Weather</li> <li>▪ Improper PPE</li> </ul>	2	<ul style="list-style-type: none"> <li>▪ Develop proper sailing knowledge</li> <li>▪ Have water and cups on hand</li> <li>▪ Have a designated Lifeguard qualified, non-participating person observe the competition and watch for signs of injury and remove the injured participant from training</li> <li>▪ Promulgate list of appropriate clothing based on weather conditions</li> <li>▪ Provide instruction on hydration</li> <li>▪ Utilize a safety boat</li> <li>▪ Have safety devices for all participants (helmets/lifejackets)</li> </ul>	4	<ul style="list-style-type: none"> <li>▪ Require use of wetsuits when below the combined pre set temperatures of air and water</li> <li>▪ Ensure all equipment and training is conducted IAW the pre-mishap safety plan</li> <li>▪ Require use of helmets and lifejackets by all participants</li> <li>▪ Have a safety boat on standby for the competition</li> <li>▪ Have fluids available and accessible during the competition</li> </ul>	<ul style="list-style-type: none"> <li>▪ The Professional Staff will be on hand for the competition to satisfy the Pre-mishap plan requirements</li> </ul>
				Accept Risks: YES NO <u>Comm</u> with Higher: YES NO	Lessons Learned:		

Mission: University of Michigan Wolverine Drill Competition			Date Worksheet Prepared: 24 MAR 2014		Date Worksheet Reviewed:		
Step 1. Identify Hazards			Step 2. Assess Hazards	Step 3. Make Risk Decisions		Step 4. Implement Controls	Step 5. Supervise
	Hazards	Causes	Initial RAC	Develop Controls	Residual RAC	How to Implement	How to Supervise
<b>Nautical Themed Relay</b>	<ul style="list-style-type: none"> <li>▪ Head injury</li> <li>▪ Hypothermia</li> <li>▪ Heat injury</li> </ul>	<ul style="list-style-type: none"> <li>▪ Boom Strikes</li> <li>▪ Improper clothing</li> <li>▪ Lack of hydration</li> <li>▪ Temperature</li> <li>▪ Weather</li> <li>▪ Improper PPE</li> </ul>	2	<ul style="list-style-type: none"> <li>▪ Develop proper sailing knowledge</li> <li>▪ Have water and cups on hand</li> <li>▪ Promulgate list of appropriate clothing based on weather conditions</li> <li>▪ Provide instruction on hydration</li> <li>▪ Face sailboats into the wind</li> </ul>	4	<ul style="list-style-type: none"> <li>▪ Require use of wetsuits when below the combined pre set temperatures of air and water</li> <li>▪ Ensure all equipment and training is conducted IAW the pre-mishap safety plan</li> <li>▪ Have fluids available and accessible during the competition</li> </ul>	<ul style="list-style-type: none"> <li>▪ The Professional Staff will be on hand for the competition to satisfy the Pre-mishap plan requirements</li> </ul>
				Accept Risks: YES NO <u>Comm</u> with Higher: YES NO	Lessons Learned:		



# The University of Michigan Naval ROTC Wolverine Drill Competition



Step 1. Identify Hazards		Step 2. Assess Hazards	Step 3. Make Risk Decisions		Step 4. Implement Controls	Step 5. Supervise	
		Initial RAC	Develop Controls	Residual RAC	How to Implement	How to Supervise	
<b>Rifle and Pistol Competition</b>	<ul style="list-style-type: none"> <li>▪ Lower body injury</li> <li>▪ Back injury</li> <li>▪ Arm injury</li> <li>▪ Heat injury</li> <li>▪ Cold injury</li> <li>▪ Tripping</li> <li>▪ Fall</li> <li>▪ Impact wound</li> <li>▪ Eye injury</li> <li>▪ Ear injury</li> </ul>	<ul style="list-style-type: none"> <li>▪ Lack of water intake</li> <li>▪ Improper clothing</li> <li>▪ Fatigue</li> <li>▪ Poor fitness</li> <li>▪ Poor visibility</li> <li>▪ Temperature</li> <li>▪ High Humidity</li> <li>▪ Misuse of firearms</li> <li>▪ Gunshots</li> </ul>	2	<ul style="list-style-type: none"> <li>▪ Provide all battalions with assistance (if necessary) while moving gear to the range.</li> <li>▪ Provide all shooters with an area to warm up/cool down if necessary.</li> <li>▪ Require that all participants attend a range safety brief from the range officer.</li> <li>▪ Notify all participants of range safety expectations prior to the competition.</li> <li>▪ Expel any participant who places the safety of their fellow shooters at risk in violation of the range safety rules.</li> <li>▪ Provide a safety van, first aid qualified individual, and stretchers on the range.</li> <li>▪ As per the Mill Creek Sports Center range safety protocol require that all participants wear adequate eye and ear protection on the range.</li> </ul>	5	<ul style="list-style-type: none"> <li>▪ Ensure that all participants know the location of the safety equipment and the pre-mishap safety plans.</li> <li>▪ Ensure that the range officer understands his billet and responsibilities</li> <li>▪ Coordinate between the Mill Creek Sports Center range safety officer and battalion range safety officer.</li> <li>▪ Ensure that all safety equipment is on the range prior to the beginning of the competition.</li> <li>▪ Instruct the range safety officer to eject any shooters that violate firearm safety standards</li> </ul>	<ul style="list-style-type: none"> <li>▪ Active duty personnel and civilian range safety personnel will be on hand during all live fire activities.</li> </ul>
			Accept Risks: YES NO Comm with Higher: YES NO	Lessons Learned:			

## Risk Assessment Matrix

### Risk Assessment Code

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

		Probability of Occurrence			
		Likely	Probably	May	Unlikely
		A	B	C	D
SEVERITY	Cat I	1	1	2	3
	Cat II	1	2	3	4
	Cat III	2	3	4	5
	Cat IV	3	4	5	5
Risk Levels					

**CATEGORY I** - The hazard may cause death, loss of facility/asset or result in grave damage to national interests.

**CATEGORY II** - The hazard may cause severe injury, illness, property damage, damage to national or service interests or degradation to efficient use of assets.

**CATEGORY III** - The hazard may cause minor injury, illness, property damage, damage to national, service or command interests or degradation to efficient use of assets.

**CATEGORY IV** - The hazard presents a minimal threat to personnel safety or health, property, national, service or command interests or efficient use of assets.



**Appendix I: Entry Forms**

**NAVAL RESERVE OFFICER  
TRAINING CORPS  
UNIVERSITY OF MICHIGAN & EASTERN MICHIGAN UNIVERSITY  
1105 N. UNIVERSITY AVE  
ANN ARBOR, MI 48109-1085**

School/Unit Name: \_\_\_\_\_

<u>Event</u>	<u>Members/Team</u>	<u>Cost/Team</u>	<u>Number of Teams</u>	<u>Total Cost/ Event</u>
Platoon Basic	14-29	\$55	_____	_____
Squad Basic	7-10	\$35	_____	_____
Color Guard	5	\$35	_____	_____
2-Member Exhibition Drill	2	\$20	_____	_____
Sailing	2	\$20	_____	_____
Endurance Challenge <sup>1</sup>	4	\$75	_____	_____
Rifle Match <sup>3</sup>	4	\$50	_____	_____
Pistol Match <sup>3</sup>	4	\$50	_____	_____
Golf Tournament <sup>2</sup>	2	\$70	_____	_____
			<b>Total Cost</b>	_____

**Complete and return the Registration Form NLT 17 FEB to ensure that there are enough competitors for each event.**

For information on Ann Arbor, MI, and the surrounding area, reference the Welcome Aboard packet on our website:  
<http://navy.rotc.umich.edu/drill-meet/>

**Notes**

\*Pay registration fees at the competition.

\*We will allow no more than 10 teams/event. Each school will be given the chance to enter one team in each event, and then slots will be filled on a first come first serve basis.

\*Any event that does not have at least three teams registered will be canceled.

\*Breakfast will be provided at the Captains Meeting the morning of Saturday 12 APR.

\*A complete SOP has an ETA of 15 FEB.

<sup>1</sup>A meal will be provided to all Endurance Challenge participants at the conclusion of the event.

<sup>2</sup>Only 10 teams may be registered in this event. The event will award trophies to those who take 1<sup>st</sup>-3<sup>rd</sup> place, but the placement will not count toward the Overall Winner score.

<sup>3</sup>Indicate here if your team needs to borrow weapons: \_\_\_\_\_

You may bring your own ammunition. If you would like us to provide you with ammunition at market price indicate here: \_\_\_\_\_

\*Market price will fluctuate, .22 Long Rifle ammunition was found to be \$3.99/50 rounds as of 07 FEB 2014.

Event shirts may be ordered for \$10/shirt. To place an order, indicate how many shirts in each size that you will purchase: XS\_\_\_\_\_ S\_\_\_\_\_ M\_\_\_\_\_ L\_\_\_\_\_ XL\_\_\_\_\_

Questions and Registration Forms may be directed to MIDN 1/C Lippie at [elippie@umich.edu](mailto:elippie@umich.edu).