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# Application for the Navy and Marine Corps Public Health Center (NMCPHC) Exposure Monitor Course (EMC) and Math Review

(Please Complete All Fields)

## Application

1. **Date of Class:** _____
2. **Location of Class:** Select A Location
3. **Student Name:** _____
4. **DOD ID#:** _____
5. **E-Mail:** _____
6. **Phone Number:** _____
7. **Job Title:** _____
8. **Rank/Civil Service Grade:** _____
9. **Highest Education Level Achieved:** Select Your Education Level
10. **Industrial Hygiene Sampling Experience (years):** _____
11. **Supervisor Name:** _____
12. **Department:** _____
13. **Supervisor's Phone Number:** _____
14. **Supervisor's E-Mail:** _____
15. **Command UIC:** _____

**16.Command Name: _____**

**Street Address: _____**

**City: _____**

**State / Province / Region: _____**

**Zip: _____**

**Note: This course is intended for Exposure Monitors, Industrial Hygiene Technicians, and junior/inexperienced Industrial Hygienists/ Industrial Hygiene Officers (IHOs). Quota priority for the course will be given to Navy/DHA personnel including Monitors, Technicians, or inexperienced/junior IH/IHOs needing the course. Others will be considered on a case-by-case basis.**

**Math Review (**include all units when applicable**)**

1. **Calculate the following:**

   **a.** $\frac{(5)(6)+(3)(8)+(2)(12)}{6} =$ _____

   **b.** $\frac{(7)(11)+(9)(2)+(8)(4)}{(5)(5)} =$ _____

   ***c.*** $\frac{(8)^2+(3)(8)+(5)^2}{11} =$ _____

   ***d.*** $\frac{(6)^2+(2)^2+(5)^2}{(3)^2} =$ _____

2. **Convert the following:**

   **a.** 30 inches to feet = _____

   **b.** 69 inches to yards = _____

   **c.** 5 yards to inches = _____

   **d.** 6.5 feet to inches = _____

   **e.** 5.75 hours to minutes = _____

   **f.** 390 minutes to hours = _____

   **g.** 2.3 hours to seconds = _____

   **h.** 400 seconds to minutes = _____

   **i.** 22 cc to ml = _____

3. **How much time in minutes has elapsed:**

   **a.** 0705 to 1143 = _____

   **b.** 0827 to 1204 = _____

   **c.** 0816 to 1426 = _____

   **d.** 0944 to 1530 = _____

4. **Calculate the following:**

   **a.** $(3)^2\ x\ (3)^3 =$ _____

   **b.** $(4)^2\ x\ (4)^3 =$ _____

   **c.** $\frac{2^4}{2^3} =$ _____

   **d.** $(3^2)^3 =$ _____

   **e.** $(2\ x\ 3)^2 =$ _____

   **f.** $(\frac{4}{3})^3 =$ _____

   **g.** $\sqrt{475} =$ _____

   **h.** $\sqrt{19.4} =$ _____

   **i.** $\sqrt{1.75} =$ _____

5. **Complete the following:**

   **a.** Find the average of 650 ft, 700 ft, and 625 ft: _____

   **b.** (0.72 $ft^2$)(600 ft) = _____

   **c.** Convert 126 $in^2$ to $ft^2$ = _____

6. **The diameter (d) of a circle is 16 inches:**

   **a.** Find the radius of the circle (inches): _____

**b.** Find the area of the circle (square inches): _____

**c.** Find the area of the circle (square feet): _____

**7. Convert the following temperatures:**

**a.** 98˚F to ˚C = _____

**b.** 35˚F to ˚C = _____

**c.** 32˚C to ˚F = _____

**d.** 19˚C to ˚F = _____

**8. Convert the following:**

**a.** 14 L to $m^3$ = _____

**b.** 29 L to $m^3$ = _____

**c.** 5 L to $m^3$ = _____

**d.** 200 µg to mg = _____

**e.** 141 µg to mg = _____

**f.** 28 µg to mg = _____

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