

**Reference No**

003/431

**Duration**

13 weeks

**IELTS**

6.5

**Location**HMS  
COLLINGWOOD**Frequency**3 courses  
per year

# SYSTEMS ENGINEERING & MANAGEMENT COURSE (WEAPON ENGINEERING) SEMC(WE)-PHASE 1

## Engineering Principles

### AIM OF COURSE

To prepare WE officers for their first sea job through the study of engineering principles and their application to weapon systems.

### OUTLINE SYLLABUS

- ◆ Weapon Engineering System Fundamentals
- ◆ Data Communications
- ◆ Combat Management Systems
- ◆ Radar – supported with laboratory lessons
- ◆ Sonar – supported with laboratory lessons
- ◆ Radio Communications –supported with laboratory lessons
- ◆ Electronic Warfare
- ◆ Electro Optics
- ◆ Above Water and Underwater Weapons
- ◆ Applied Control including Hydraulics and Pneumatics
- ◆ Group technical project resulting in a written submission and presentation

### ENTRY STANDARDS

- ◆ Degree or equivalent in electrical/electronic Engineering approved by MOD(N)
- ◆ Minimum 6 weeks practical experience with weapon equipment

### POST COURSE RECOMMENDATIONS

Postgraduate studies if student achieves a good overall result on course.

### REMARKS

Proof of educational qualifications will be required on joining. In order to take this course, students must be medically fit and able to pass the Royal Navy Fitness Test.