

DEPARTMENT OF MARINE ENGINEERING

VALUE ADDED COURSE DETAIL

ACADEMIC YEAR-2016-17

|    |                              |                                                                                                           |
|----|------------------------------|-----------------------------------------------------------------------------------------------------------|
| 1  | Course Name                  | PERSONAL SURVIVAL TECHNIQUES (PST)                                                                        |
| 2  | Course offered by            | AMET,STCW DEPT                                                                                            |
| 3  | Co-Ordinator                 | Capt.I.V.S.Ramakrishna                                                                                    |
| 4  | Instructor                   | Mr.Anil Kumar, Mr.Malcom, Mr.Baskar, Mr.Ramanujam                                                         |
| 5  | Course                       | IMO DG Approved Syllabus                                                                                  |
| 6  | Class                        | BE-Marine                                                                                                 |
| 7  | Number of Students per batch | 20                                                                                                        |
| 8  | Duration                     | 30 Hrs                                                                                                    |
| 9  | Prerequisite                 | SSLC pass with 50% mark in English                                                                        |
| 10 | About the Course             | To know and be familiar with all means of provide to on board a ship for survival at sea.                 |
| 11 | Course Objective             | Various lives saving appliance on board ship.<br>Actions necessary to survive when in the survival craft. |
| 12 | Course Outcome               | Knowledge of action to be taken.<br>Knowledge of main dangers to survival.                                |
| 13 | Topics Covered               | Syllabus Attached                                                                                         |
| 14 | Learning References          | Manual Attached                                                                                           |
| 15 | Assessment Method            | Hand on Training                                                                                          |
| 16 | Attendance Sheet             | Copies Attached                                                                                           |
| 17 | Photograph                   | Copies Attached                                                                                           |
| 18 | Certificate Copies           | Copies Attached                                                                                           |
| 19 | Feedback About The Course    | Copies Attached                                                                                           |
| 20 | Action Taken Report          | Copies Attached                                                                                           |



# AMET UNIVERSITY

(Under Sec. 3 of UGC Act 1956)

**Department of Pre – Sea Modular Courses**

## **PERSONAL SURVIVAL TECHNIQUES (PST)**





# AMET UNIVERSITY

(Under Sec.3 of UGC Act 1956)

Syllabus.

## DEPARTMENT OF PRE-SEA MODULAR COURSES COURSE OUTLINE – PERSONAL SURVIVAL TECHNIQUES

| Sr.No. | Topic                                                                                                                                                                                                                                                                                                                                                                                            | Methods of teaching        | Duration      |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------------|
| 1.     | <b>Introduction Safety &amp; Survival</b> <ul style="list-style-type: none"><li>♦ Safety Guidance</li><li>♦ Principles of Survival at sea</li><li>♦ Definitions, survival craft and appliances</li><li>♦ SOLAS Training manual</li><li>♦ Safety Symbols</li></ul>                                                                                                                                | Lecture /<br>rPresentation | 0.75<br>Hours |
| 2.     | <b>Emergency situations</b> <ul style="list-style-type: none"><li>♦ Types of emergencies</li><li>♦ Precautions</li><li>♦ Fire Provisions</li><li>♦ Foundering</li><li>♦ Crew expertise and initial familiarisation</li><li>♦ Muster List and emergency signals</li><li>♦ Crew and emergency instructions</li><li>♦ Extra equipment and survival</li><li>♦ Abandon ship - complications</li></ul> | Lecture /<br>Presentation  | 1.5 Hour      |
| 3.     | <b>Evacuation</b> <ul style="list-style-type: none"><li>♦ Abandoning ship ♦ last resort</li><li>♦ Personal preparation for abandoning ship</li><li>♦ Need to prevent panic</li><li>♦ Crew duties to passengers</li><li>♦ Crew duties ♦ launching survival craft</li><li>♦ Master♦s orders to abandon ship</li><li>♦ Means of Survival</li></ul>                                                  | Lecture/<br>Presentation   | 0.75<br>Hours |



# AMET

## UNIVERSITY

(Under sec. 3 of UGC act 1956)

### ATTENDANCE RECORD SHEET: EFA/FPFF/PST/PSSR/OTFC/STSDSD

BATCH NO: 756 FROM 11.9.17 TO 13.9.17

DAY: 1 DATE: 11.9.17

| SL. NO. | INDoS    | NAME                              | SIGNATURE OF STUDENTS |            |             |
|---------|----------|-----------------------------------|-----------------------|------------|-------------|
|         |          |                                   | SESSION I             | SESSION II | SESSION III |
| 1       | 14EL2114 | VIGNESH MURUGAN                   |                       |            |             |
| 2       | 14EL2119 | VIGNESWARAN PANNNEERSELVAM        |                       |            |             |
| 3       | 14EL2121 | VIJAYAKUMAR SAMUDI                |                       |            |             |
| 4       | 14EL2122 | VINOTH KUMAR                      |                       |            |             |
| 5       | 14EL2123 | VIRPRATAP KUMAR RAO               |                       |            |             |
| 6       | 14EL2044 | VISHAL SINGH                      |                       |            |             |
| 7       | 14EL2045 | VISHNU BHUVANACHANDRAN THULASI    |                       |            |             |
| 8       | 14EL2046 | VISHNUPRIYAN ANANDHAN             |                       |            |             |
| 9       | 14EL2047 | VIVEK SETHU RAMAN                 |                       |            |             |
| 10      | 14EL2048 | WALITH KHAN MUSARAB KHAN          |                       |            |             |
| 11      | 14EL2049 | YADHUKRISHNA                      |                       |            |             |
| 12      | 14EL2050 | YUGESH KUMAR MANOHARAN            |                       |            |             |
| 13      | 14EL2051 | HARI PRASATH PACHAMUTHU           |                       |            |             |
| 14      | 14EL2185 | VIWAN SHETTY                      |                       |            |             |
| 15      | 16EL0079 | VENKATESH AYYAPPAN                |                       |            |             |
| 16      | 16EL0080 | VISHNU ARAVIND POONGODI NATARAJAN |                       |            |             |
| 17      | 16EL0259 | INDERJIT SINGH                    |                       |            |             |
| 18      | 16EL0151 | GAURAV KUMAR SINHA                |                       |            |             |

Faculty Signature:

Faculty Name:

P. S. T. Reg. Nirmalan

F202C/ REV 00/ 01.10.12



AMET  
UNIVERSITY

(Under sec. 3 of UGC act 1956)

ATTENDANCE RECORD SHEET: EFA/FPFF/PST/PSSR/OTFC/STSDSD

DAY: 20 DATE: 12.9.17 BATCH NO: 756 FROM 11.9.17 TO 13.9.17

| SL. NO. | INDoS    | NAME                              | SIGNATURE OF STUDENTS |            |             |
|---------|----------|-----------------------------------|-----------------------|------------|-------------|
|         |          |                                   | SESSION I             | SESSION II | SESSION III |
| 1       | 14EL2114 | VIGNESH MURUGAN                   |                       |            |             |
| 2       | 14EL2119 | VIGNESWARAN PANNEERSELVAM         |                       |            |             |
| 3       | 14EL2121 | VIJAYAKUMAR SAMUDI                |                       |            |             |
| 4       | 14EL2122 | VINOTH KUMAR                      |                       |            |             |
| 5       | 14EL2123 | VIRPRATAP KUMAR RAO               |                       |            |             |
| 6       | 14EL2044 | VISHAL SINGH                      |                       |            |             |
| 7       | 14EL2045 | VISHNU BHUVANACHANDRAN THULASI    |                       |            |             |
| 8       | 14EL2046 | VISHNUPRIYAN ANANDHAN             |                       |            |             |
| 9       | 14EL2047 | VIVEK SETHU RAMAN                 |                       |            |             |
| 10      | 14EL2048 | WALITH KHAN MUSARAB KHAN          |                       |            |             |
| 11      | 14EL2049 | YADHUKRISHNA                      |                       |            |             |
| 12      | 14EL2050 | YUGESH KUMAR MANOHARAN            |                       |            |             |
| 13      | 14EL2051 | HARI PRASATH PACHAMUTHU           |                       |            |             |
| 14      | 14EL2185 | VIWAN SHETTY                      |                       |            |             |
| 15      | 16EL0079 | VENKATESH AYYAPPAN                |                       |            |             |
| 16      | 16EL0080 | VISHNU ARAVIND POONGODI NATARAJAN |                       |            |             |
| 17      | 16EL0259 | INDERJIT SINGH                    |                       |            |             |
| 18      | 16EL0151 | GAURAV KUMAR SINHA                |                       |            |             |

Faculty Signature:

Faculty Name : G. Anand Kumar

F202C/ REV 00/ 01.10.12



AMET  
UNIVERSITY

(Under Sec. 3 of UGC act 1956)

ATTENDANCE RECORD SHEET: EFA/FPFF/PST/PSSR/OTFC/STSDSD

DAY: 3 DATE: 13.9.17 BATCH NO: 766 FROM 11.9.17 TO 13.9.17

| SL. NO. | INDoS    | NAME                              | SIGNATURE OF STUDENTS |            |             |
|---------|----------|-----------------------------------|-----------------------|------------|-------------|
|         |          |                                   | SESSION I             | SESSION II | SESSION III |
| 1       | 14EL2114 | VIGNESH MURUGAN                   |                       |            |             |
| 2       | 14EL2119 | VIGNESWARAN PANNEERSELVAM         |                       |            |             |
| 3       | 14EL2121 | VIJAYAKUMAR SAMUDI                |                       |            |             |
| 4       | 14EL2122 | VINOTH KUMAR                      |                       |            |             |
| 5       | 14EL2123 | VIRPRATAP KUMAR RAO               |                       |            |             |
| 6       | 14EL2044 | VISHAL SINGH                      |                       |            |             |
| 7       | 14EL2045 | VISHNU BHUVANACHANDRAN THULASI    |                       |            |             |
| 8       | 14EL2046 | VISHNUPRIYAN ANANDHAN             |                       |            |             |
| 9       | 14EL2047 | VIVEK SETHU RAMAN                 |                       |            |             |
| 10      | 14EL2048 | WALITH KHAN MUSARAB KHAN          |                       |            |             |
| 11      | 14EL2049 | YADHUKRISHNA                      |                       |            |             |
| 12      | 14EL2050 | YUGESH KUMAR MANOHARAN            |                       |            |             |
| 13      | 14EL2051 | HARI PRASATH PACHAMUTHU           |                       |            |             |
| 14      | 14EL2185 | VIWAN SHETTY                      |                       |            |             |
| 15      | 16EL0079 | VENKATESH AYYAPPAN                |                       |            |             |
| 16      | 16EL0080 | VISHNU ARAVIND POONGODI NATARAJAN |                       |            |             |
| 17      | 16EL0259 | INDERJIT SINGH                    |                       |            |             |
| 18      | 16EL0151 | GAURAV KUMAR SINHA                |                       |            |             |

Faculty Signature:

Faculty Name : Capt Dileep Srinivasan

F202C/ REV 00/ 01.10.12

**DEPARTMENT OF PRE SEA MODULAR COURSES**

**COURSES FEEDBACK FORM**

Course Name: PST Course Code: \_\_\_\_\_  
 1. Full Name of Trainee VISHNU ARAVIND P.N  
 2. Rank: \_\_\_\_\_ Dates Attended: From \_\_\_\_\_ To \_\_\_\_\_  
 (Please give score 1 to 5 in terms of quality course)  
 { 5- Very Good ; 4- Good; 3- Satisfactory; 2- Needs Changes; 1- Below Satisfaction }

| Sr.No | Course Feedback                                                                                        | Score(1-5) | Remarks/Suggestions |
|-------|--------------------------------------------------------------------------------------------------------|------------|---------------------|
| 1     | Course learning objectives identified and achieved                                                     | 5          |                     |
| 2     | Physical arrangements- Classroom (controlled, temperature, lighting, projection, video, table, chairs) | 5          |                     |
| 3     | Exercises/Practicals/ Demonstration                                                                    | 5          |                     |
| 4     | Course handout/ material provided                                                                      | 5          |                     |
| 5     | Simulator arrangement/ Computer Programs                                                               | 5          |                     |
| 6     | Training Films                                                                                         | 5          |                     |
| 7     | Food arrangements                                                                                      | 5          |                     |
| 8     | Overall rating for the course                                                                          | 5          |                     |

2. FACULTY EVALUATION (Please give marks 1 to 5 for quality of Lecture content, Lecture presentation, knowledge of subject matter)  
 { 5- Very Good ; 4- Good; 3- Satisfactory; 2- Needs Changes; 1- Below Satisfaction }

| No. | Name of faculty        | Score(1-5) |
|-----|------------------------|------------|
| 1   | Capt. Dilip Srinivasan | 5          |
| 2   |                        |            |
| 3   |                        |            |
| 4   |                        |            |

|                        |  |
|------------------------|--|
| Good Comments          |  |
| Improvement required   |  |
| Complaints/ Grievances |  |

  
 Signature

Good Comments (specify any good aspects of the course):  
 Improvement required (specify any aspects of the course which require improvement)  
 Complaints/ Grievances, if any

**DEPARTMENT OF PRE SEA MODULAR COURSES**

**COURSES FEEDBACK FORM**

Course Name: PSK Course Code: \_\_\_\_\_

1. Full Name of Trainee HARI PRASATH

2. Rank: \_\_\_\_\_ Dates Attended: From \_\_\_\_\_ To \_\_\_\_\_

(Please give score 1 to 5 in terms of quality course)

{ 5- Very Good ; 4- Good; 3- Satisfactory; 2- Needs Changes; 1- Below Satisfaction }

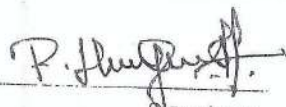
| Sr.No | Course Feedback                                                                                        | Score(1-5) | Remarks/Suggestions |
|-------|--------------------------------------------------------------------------------------------------------|------------|---------------------|
| 1     | Course learning objectives identified and achieved                                                     | 5          |                     |
| 2     | Physical arrangements- Classroom (controlled, temperature, lighting, projection, video, table, chairs) | 4          |                     |
| 3     | Exercises/Practicals/ Demonstration                                                                    | 4          |                     |
| 4     | Course handout/ material provided                                                                      | 5          |                     |
| 5     | Simulator arrangement/ Computer Programs                                                               | 4          |                     |
| 6     | Training Films                                                                                         | 5          |                     |
| 7     | Food arrangements                                                                                      | 4          |                     |
| 8     | Overall rating for the course                                                                          | 4          |                     |

2. FACULTY EVALUATION (Please give marks 1 to 5 for quality of Lecture content, Lecture presentation, knowledge of subject matter)

{ 5- Very Good ; 4- Good; 3- Satisfactory; 2- Needs Changes; 1- Below Satisfaction }

| No. | Name of faculty        | Score(1-5) |
|-----|------------------------|------------|
| 1   | Capt. Dilip Srinivasan | 5          |
| 2   |                        |            |
| 3   |                        |            |
| 4   |                        |            |

|                        |  |
|------------------------|--|
| Good Comments          |  |
| Improvement required   |  |
| Complaints/ Grievances |  |

  
 Signature

Good Comments (specify any good aspects of the course):

Improvement required (specify any aspects of the course which require improvement)

Complaints/ Grievances, if any

Controlled Copy

Annex VIII -Feedback Form

F211A/REV01/05.04.2017

**DEPARTMENT OF PRE SEA MODULAR COURSES**

**COURSES FEEDBACK FORM**

Course Name: PST Course Code: \_\_\_\_\_

1. Full Name of Trainee Nandha Kumar G

2. Rank: \_\_\_\_\_ Dates Attended: From 21.9.17 To 22.9.17

(Please give score 1 to 5 in terms of quality course)

{ 5- Very Good ; 4- Good; 3- Satisfactory; 2- Needs Changes; 1- Below Satisfaction }

| Sr.No | Course Feedback                                                                                        | Score(1-5) | Remarks/Suggestions |
|-------|--------------------------------------------------------------------------------------------------------|------------|---------------------|
| 1     | Course learning objectives identified and achieved                                                     | 4          |                     |
| 2     | Physical arrangements- Classroom (controlled, temperature, lighting, projection, video, table, chairs) | 4          |                     |
| 3     | Exercises/Practicals/ Demonstration                                                                    | 5          |                     |
| 4     | Course handout/ material provided                                                                      | 4          |                     |
| 5     | Simulator arrangement/ Computer Programs                                                               | 4          |                     |
| 6     | Training Films                                                                                         | 4          |                     |
| 7     | Food arrangements                                                                                      | 3          |                     |
| 8     | Overall rating for the course                                                                          | 4          |                     |

2. FACULTY EVALUATION (Please give marks 1 to 5 for quality of Lecture content, Lecture presentation, knowledge of subject matter)

{ 5- Very Good ; 4- Good; 3- Satisfactory; 2- Needs Changes; 1- Below Satisfaction }

| No. | Name of faculty           | Score(1-5) |
|-----|---------------------------|------------|
| 1   | Capt.I.V.S. Rama Krishna  | 5          |
| 2   | Mr. Anil Kumar            | 5          |
| 3   | Capt.Satheesh chinnadurai | 5          |
| 4   |                           |            |

|                        |  |
|------------------------|--|
| Good Comments          |  |
| Improvement required   |  |
| Complaints/ Grievances |  |

  
 Signature

Good Comments (specify any good aspects of the course):

Improvement required (specify any aspects of the course which require improvement)

Complaints/ Grievances, if any

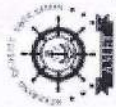
Controlled Copy

Annex VIII -Feedback Form

F211A/REV01/05.04.2017

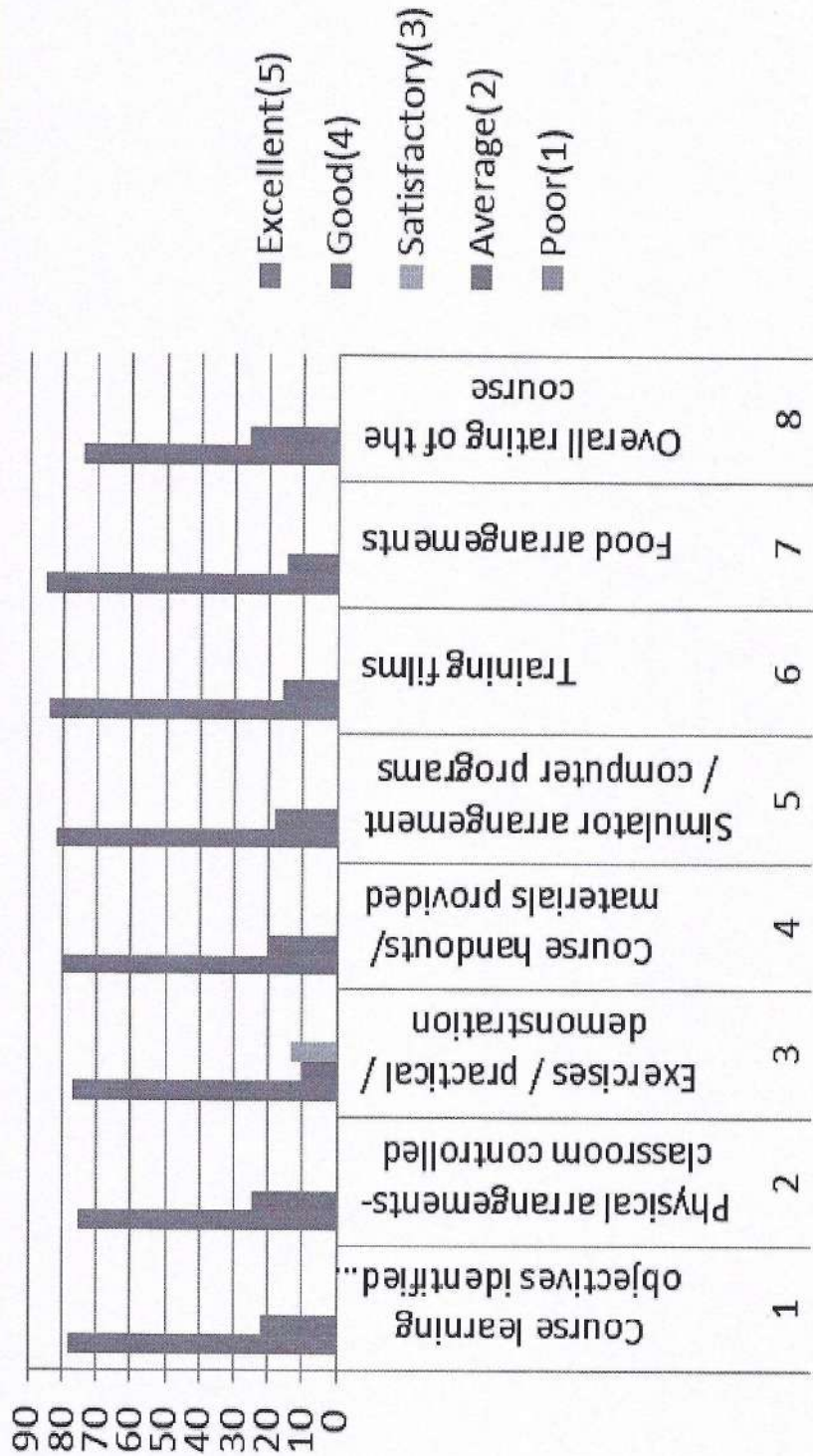
Course Name : Personal Survival Technique (PST)

| S.No | Course Feedback                                    | Excellent(5) | Good(4) | Satisfactory(3) | Average(2) | Poor(1) |
|------|----------------------------------------------------|--------------|---------|-----------------|------------|---------|
| 1    | Course learning objectives identified and achieved | 78           | 22      |                 |            |         |
| 2    | Physical arrangements- classroom controlled        | 75           | 25      |                 |            |         |
| 3    | Exercises / practical / demonstration              | 77           | 10      | 13              |            |         |
| 4    | Course handouts/ materials provided                | 80           | 20      |                 |            |         |
| 5    | Simulator arrangement / computer programs          | 82           | 18      |                 |            |         |
| 6    | Training films                                     | 84           | 16      |                 |            |         |
| 7    | Food arrangements                                  | 85           | 15      |                 |            |         |
| 8    | Overall rating of the course                       | 74           | 26      |                 |            |         |



# AMET

ACADEMY OF MARITIME EDUCATION AND TRAINING



**Summary:**

Course learning objectives identified and achieved has been found satisfactory. Course handouts/ materials provided are also good. Need to take care of Exercises / practical / demonstration.

**Findings:**

From the feedback of Student the department observed that:

1. Exercises / practical / demonstration need to improve.
2. Overall rating of the course found satisfactory.

**Action Plan:**

Based on the observation the department planned to improve the above suggestion in order to enhance the quality of students.

**Action Taken Report:**

As per the students feedback it is found that Exercises / practical / demonstration is seems to be improved. In order to improve that the faculties are advised to arrange more practical classes to the students.



# AMET

ACADEMY OF MARITIME EDUCATION AND TRAINING  
(Declared as Deemed to be UNIVERSITY u/s 3 of UGC Act 1956)

135, East Coast Road, Kanathur - 603112, Chennai, INDIA,  
Tel. : 044-27472155 Extn.: 163 Email : stwcourses@gmail.com

INDOS No.: 805

PST/B754/05

Certificate No.: .....

THIS IS TO CERTIFY THAT Mr.GRIFFIN SUGUNA EDWIN

Date of Birth 21/02/1993 (dd/mm/yyyy)

Holder of C.D.C. No. .... Passport No. M6360959

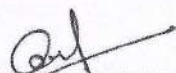
Certificate of Competency, (if any) Grade : ..... No. ....

Indian National Database of Seafarers (INDoS) No. 17EL0566

has successfully completed a training course for Certificate of Proficiency in

## PERSONAL SURVIVAL TECHNIQUES

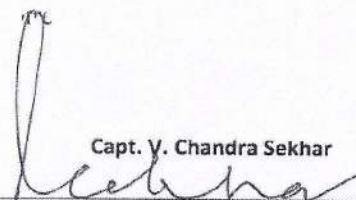
held from 08/06/2017 to 10/06/2017

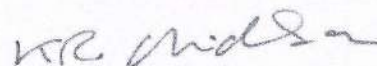
  
Signature of Candidate

Date of Issue : 10/06/2017

Date of Expiry : UNLIMITED, subject  
to refresher training every 5 Years



  
Capt. Y. Chandra Sekhar  
Name and Signature of Course In-charge

  
Prof. KR. CHIDAMBARAM

Name and Signature of Dean / Principal

DEPARTMENT OF MARINE ENGINEERING

VALUE ADDED COURSE DETAIL

ACADEMIC YEAR-2015-16

|    |                              |                                                                                                           |
|----|------------------------------|-----------------------------------------------------------------------------------------------------------|
| 1  | Course Name                  | PERSONAL SURVIVAL TECHNIQUES (PST)                                                                        |
| 2  | Course offered by            | AMET,STCW DEPT                                                                                            |
| 3  | Co-Ordinator                 | Capt.I.V.S.Ramakrishna                                                                                    |
| 4  | Instructor                   | Mr.Anil Kumar, Mr.Malcom, Mr.Baskar, Mr.Ramanujam                                                         |
| 5  | Course                       | IMO DG Approved Syllabus                                                                                  |
| 6  | Class                        | BE-Marine                                                                                                 |
| 7  | Number of Students per batch | 20                                                                                                        |
| 8  | Duration                     | 30 Hrs                                                                                                    |
| 9  | Prerequisite                 | SSLC pass with 50% mark in English                                                                        |
| 10 | About the Course             | To know and be familiar with all means of provide to on board a ship for survival at sea.                 |
| 11 | Course Objective             | Various lives saving appliance on board ship.<br>Actions necessary to survive when in the survival craft. |
| 12 | Course Outcome               | Knowledge of action to be taken.<br>Knowledge of main dangers to survival.                                |
| 13 | Topics Covered               | Syllabus Attached                                                                                         |
| 14 | Learning References          | Manual Attached                                                                                           |
| 15 | Assessment Method            | Hand on Training                                                                                          |
| 16 | Attendance Sheet             | Copies Attached                                                                                           |
| 17 | Photograph                   | Copies Attached                                                                                           |
| 18 | Certificate Copies           | Copies Attached                                                                                           |
| 19 | Feedback About The Course    | Copies Attached                                                                                           |
| 20 | Action Taken Report          | Copies Attached                                                                                           |



# AMET UNIVERSITY

(Under Sec. 3 of UGC Act 1956)

**Department of Pre – Sea Modular Courses**

## **PERSONAL SURVIVAL TECHNIQUES (PST)**





# AMET UNIVERSITY

(Under Sec.3 of UGC Act 1956)

Syllabus

## DEPARTMENT OF PRE-SEA MODULAR COURSES COURSE OUTLINE – PERSONAL SURVIVAL TECHNIQUES

| Sr.No. | Topic                                                                                                                                                                                                                                                                                                                                                                                                      | Methods of teaching    | Duration   |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|------------|
| 1.     | <b>Introduction Safety &amp; Survival</b> <ul style="list-style-type: none"> <li>♦ Safety Guidance</li> <li>♦ Principles of Survival at sea</li> <li>♦ Definitions, survival craft and appliances</li> <li>♦ SOLAS Training manual</li> <li>♦ Safety Symbols</li> </ul>                                                                                                                                    | Lecture / Presentation | 0.75 Hours |
| 2.     | <b>Emergency situations</b> <ul style="list-style-type: none"> <li>♦ Types of emergencies</li> <li>♦ Precautions</li> <li>♦ Fire Provisions</li> <li>♦ Foundering</li> <li>♦ Crew expertise and initial familiarisation</li> <li>♦ Muster List and emergency signals</li> <li>♦ Crew and emergency instructions</li> <li>♦ Extra equipment and survival</li> <li>♦ Abandon ship - complications</li> </ul> | Lecture / Presentation | 1.5 Hour   |
| 3.     | <b>Evacuation</b> <ul style="list-style-type: none"> <li>♦ Abandoning ship ♦ last resort</li> <li>♦ Personal preparation for abandoning ship</li> <li>♦ Need to prevent panic</li> <li>♦ Crew duties to passengers</li> <li>♦ Crew duties ♦ launching survival craft</li> <li>♦ Master ♦s orders to abandon ship</li> <li>♦ Means of Survival</li> </ul>                                                   | Lecture/ Presentation  | 0.75 Hours |



AMET

UNIVERSITY

(Under sec 3 of UGC act 1956)

ATTENDANCE RECORD SHEET: EFA/FPFF/PST/PSSR/OTFC/STSDSD

DAY: DATE:

PST 722 ME BE-13 2A

| SL. NO. | INDoS   | NAME                              | SIGNATURE OF STUDENTS |            |             |
|---------|---------|-----------------------------------|-----------------------|------------|-------------|
|         |         |                                   | SESSION I             | SESSION II | SESSION III |
| 1       | 13EL191 | Mr. GNANADEEP S                   |                       |            |             |
| 2       | 13EL191 | Mr. GOGULAKRISHNAN JANAKIRAMAN    |                       |            |             |
| 3       | 13EL191 | Mr. GOKUL RATHEESHKUMAR SINDHU    |                       |            |             |
| 4       | 13EL198 | Mr. GOKULRAJ VENKATACHALAM        |                       |            |             |
| 5       | 13EL198 | Mr. GOUTHAM PANTHA VOOR MADHAVAN  |                       |            |             |
| 6       | 13EL198 | Mr. GOWDHAM COVINDANE             |                       |            |             |
| 7       | 13EL191 | Mr. GOWTHAM JEVAM                 |                       |            |             |
| 8       | 13EL198 | Mr. JAMALS KASPAR MELKUIS         |                       |            |             |
| 9       | 13EL198 | Mr. JANESHWAR JANARTHANAN         |                       |            |             |
| 10      | 13EL198 | Mr. JASON.GAVIN.RODRICKS          |                       |            |             |
| 11      | 13EL198 | Mr. JAYAN MUTHRATHIPARAMBIL BABU  |                       |            |             |
| 12      | 13EL199 | Mr. JAYASURYA RAJENDRAN           |                       |            |             |
| 13      | 13EL199 | Mr. JEEVANANDHAM THANGARAJ AMUDHA |                       |            |             |
| 14      | 13EL193 | Mr. JITHIN SIBY                   |                       |            |             |
| 15      | 13EL193 | Mr. KAMALESH ARULMOZHI            |                       |            |             |
| 16      | 13EL192 | Mr. SAI SURESH KANDUKURI          |                       |            |             |
| 17      | 13EL191 | Mr. KARTHICK KUMAR                |                       |            |             |
| 18      | 13EL192 | Mr. KAUSHIK PANNER SELVAM         |                       |            |             |
| 19      | 13EL192 | Mr. KIRUBHAGARAN CHANDRAN         |                       |            |             |
| 20      | 13EL192 | Mr. KRISHNAPRASAD KODANY          |                       |            |             |

Faculty Signature

Controlled Copy

Faculty Name: CAPT. T. J. ABUL

F202C/ REV 00/ 01.10.12

955



ATTENDANCE RECORD SHEET: EFA/FPFF/RST/PSSR/OTFC/STSDSD  
 (Under sec. 3 of UAC act 1956)

PST 722 ME BE-13 2A  
 TO 16/07/2010

DAY: 2 DATE:

BATCH NO: 722

FROM 14/07/2006

| SL. NO. | INDoS    | NAME                              | SIGNATURE OF STUDENTS |            |             |
|---------|----------|-----------------------------------|-----------------------|------------|-------------|
|         |          |                                   | SESSION I             | SESSION II | SESSION III |
| 1       | 13EL1910 | Mr. GNANADEEP S                   | 14/7                  | 14/7       | 14/7        |
| 2       | 13EL1911 | Mr. GOGULAKRISHNAN JANAKIRAMAN    | 5.6.12                | 5.6.12     | 5.6.12      |
| 3       | 13EL1912 | Mr. GOKUL RATHEESHKUMAR SINDHU    | 14/7                  | 14/7       | 14/7        |
| 4       | 13EL1982 | Mr. GOKULRAJ VENKATACHALAM        | 14/7                  | 14/7       | 14/7        |
| 5       | 13EL1983 | Mr. GOUTHAM PANTHA VOOR MADHAVAN  | 14/7                  | 14/7       | 14/7        |
| 6       | 13EL1984 | Mr. GOWDHAM COVINDANE             | 14/7                  | 14/7       | 14/7        |
| 7       | 13EL1915 | Mr. GOWTHAM JEYAM                 | 14/7                  | 14/7       | 14/7        |
| 8       | 13EL1986 | Mr. JAMALS KASPAR MELKUIS         | 14/7                  | 14/7       | 14/7        |
| 9       | 13EL1981 | Mr. JANESHWAR JANARTHANAN         | 14/7                  | 14/7       | 14/7        |
| 10      | 13EL1987 | Mr. JASON.GAVIN.RODRICKS          | 14/7                  | 14/7       | 14/7        |
| 11      | 13EL1989 | Mr. JAYAN MUTHRATHIPARAMBIL BABU  | 14/7                  | 14/7       | 14/7        |
| 12      | 13EL1990 | Mr. JAYASURYA RAJENDRAN           | 14/7                  | 14/7       | 14/7        |
| 13      | 13EL1991 | Mr. JEEVANANDHAM THANGARAJ AMUDHA | 14/7                  | 14/7       | 14/7        |
| 14      | 13EL1935 | Mr. JITHIN SIBY                   | 14/7                  | 14/7       | 14/7        |
| 15      | 13EL1936 | Mr. KAMALESH ARULMOZHI            | 14/7                  | 14/7       | 14/7        |
| 16      | 13EL1927 | Mr. SAI SURESH KANDUKURI          | 14/7                  | 14/7       | 14/7        |
| 17      | 13EL1914 | Mr. KARTHICK KUMAR                | 14/7                  | 14/7       | 14/7        |
| 18      | 13EL1928 | Mr. KAUSHIK PANNER SELVAM         | 14/7                  | 14/7       | 14/7        |
| 19      | 13EL1925 | Mr. KIRUBHAGARAN CHANDRAN         | 14/7                  | 14/7       | 14/7        |
| 20      | 13EL1929 | Mr. KRISHNAPRASAD KODANY          | 14/7                  | 14/7       | 14/7        |

Faculty Signature:

Controlled Copy

Faculty Name: G.B. RANJITH

# AMET

## UNIVERSITY

(Under sec. 3 of UGC Act 1956)

### ATTENDANCE RECORD SHEET: EFA/FPFF/PST/PSSR/OTFC/STSDSD

DAY: DATE:

PST 722 ME BE-13 2A  
TO

BATCH NO: FROM

| SL. NO. | INDOs    | NAME                              | SIGNATURE OF STUDENTS |            |             |
|---------|----------|-----------------------------------|-----------------------|------------|-------------|
|         |          |                                   | SESSION I             | SESSION II | SESSION III |
| 1       | 13EL1910 | Mr. GNANADEEP S                   |                       |            |             |
| 2       | 13EL1911 | Mr. GOGULAKRISHNAN JANAKIRAMAN    |                       |            |             |
| 3       | 13EL1912 | Mr. GOKUL RATHEESHKUMAR SINDHU    |                       |            |             |
| 4       | 13EL1982 | Mr. GOKULRAJ VENKATACHALAM        |                       |            |             |
| 5       | 13EL1983 | Mr. GOUTHAM PANTHA VOOR MADHAVAN  |                       |            |             |
| 6       | 13EL1984 | Mr. GOWDHAM COVINDANE             |                       |            |             |
| 7       | 13EL1915 | Mr. GOWTHAM JEYAM                 |                       |            |             |
| 8       | 13EL1986 | Mr. JAMALS KASPAR MELKUIS         |                       |            |             |
| 9       | 13EL1981 | Mr. JANESHWAR JANARTHANAN         |                       |            |             |
| 10      | 13EL1987 | Mr. JASON.GAVIN.RODRICKS          |                       |            |             |
| 11      | 13EL1989 | Mr. JAYAN MUTHRATHIPARAMBIL BABU  |                       |            |             |
| 12      | 13EL1990 | Mr. JAYASURYA RAJENDRAN           |                       |            |             |
| 13      | 13EL1991 | Mr. JEEVANANDHAM THANGARAJ AMUDHA |                       |            |             |
| 14      | 13EL1935 | Mr. JITHIN SIBY                   |                       |            |             |
| 15      | 13EL1936 | Mr. KAMALESH ARULMOZHI            |                       |            |             |
| 16      | 13EL1927 | Mr. SAI SURESH KANDUKURI          |                       |            |             |
| 17      | 13EL1914 | Mr. KARTHICK KUMAR                |                       |            |             |
| 18      | 13EL1928 | Mr. KAUSHIK PANNER SELVAM         |                       |            |             |
| 19      | 13EL1925 | Mr. KIRUBHAGARAN CHANDRAN         |                       |            |             |
| 20      | 13EL1929 | Mr. KRISHNAPRASAD KODANY          |                       |            |             |

Faculty Signature:

Controlled Copy

Faculty Name:

F202C/ REV 00/ 01.10.12



# AMET

## UNIVERSITY

(Under Sec. 3 of UGC Act 1956)

### PROGRAMME EVALUATION

EFA / FPEF / PST / PSSR / STSDSD / OTFC

Dear participant,

Your honest feedback will help us to improve the course

1. Was the programme useful?

☒ Yes / ☐ No

2. Was the course content communicated effectively?

☒ Yes / ☐ No

3. Was the practical conducted effectively?

☒ Yes / ☐ No

4. Do you think the training can help you in work?

☒ Yes / ☐ No

5. Were the faculties well - versed with the subject?

☒ Yes / ☐ No

6. Topic on which you feel more elaboration was necessary?

No

7. Is there anything you would like to include in this programme?

No

8. Any other suggestions or comments.

No

Residential Address for External Candidate)

Company Address

Signature of the participant (Optional)

Name

Rank

Roll No

Date

A-KAMALESH

B.E (M.E)

1673B

26.7.2016

Uncontrolled Copy

F 211A / REV 00/01.10.2012



# AMET UNIVERSITY

(Under Act No. 3 of 1986)  
PROGRAMME EVALUATION

EFA / PPF / PST / PSSR / STSDSD / OTFC

Dear participant,

Your honest feedback will help us to improve the course

1. Was the programme useful?
2. Was the course content communicated effectively?
3. Was the practical conducted effectively?
4. Do you think the training can help you in work?
5. Were the faculties well - versed with the subject?
6. Topic on which you feel more elaboration was necessary?  
\_\_\_\_\_
7. Is there anything you would like to include in this programme?  
\_\_\_\_\_
8. Any other suggestions or comments.  
\_\_\_\_\_

☒ Yes / ☐ No

☒ Yes / ☐ No

☒ Yes / ☐ No

☒ Yes / ☐ No

☒ Yes / ☐ No

Residential Address for External Candidate)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Company Address

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Signature of the participant (Optional)

Name : JASON: GAVIN: RODRICKS  
Rank :  
Roll No : 1667B  
Date :

x Controlled Copy

F211A / REV 00/01/10.2012

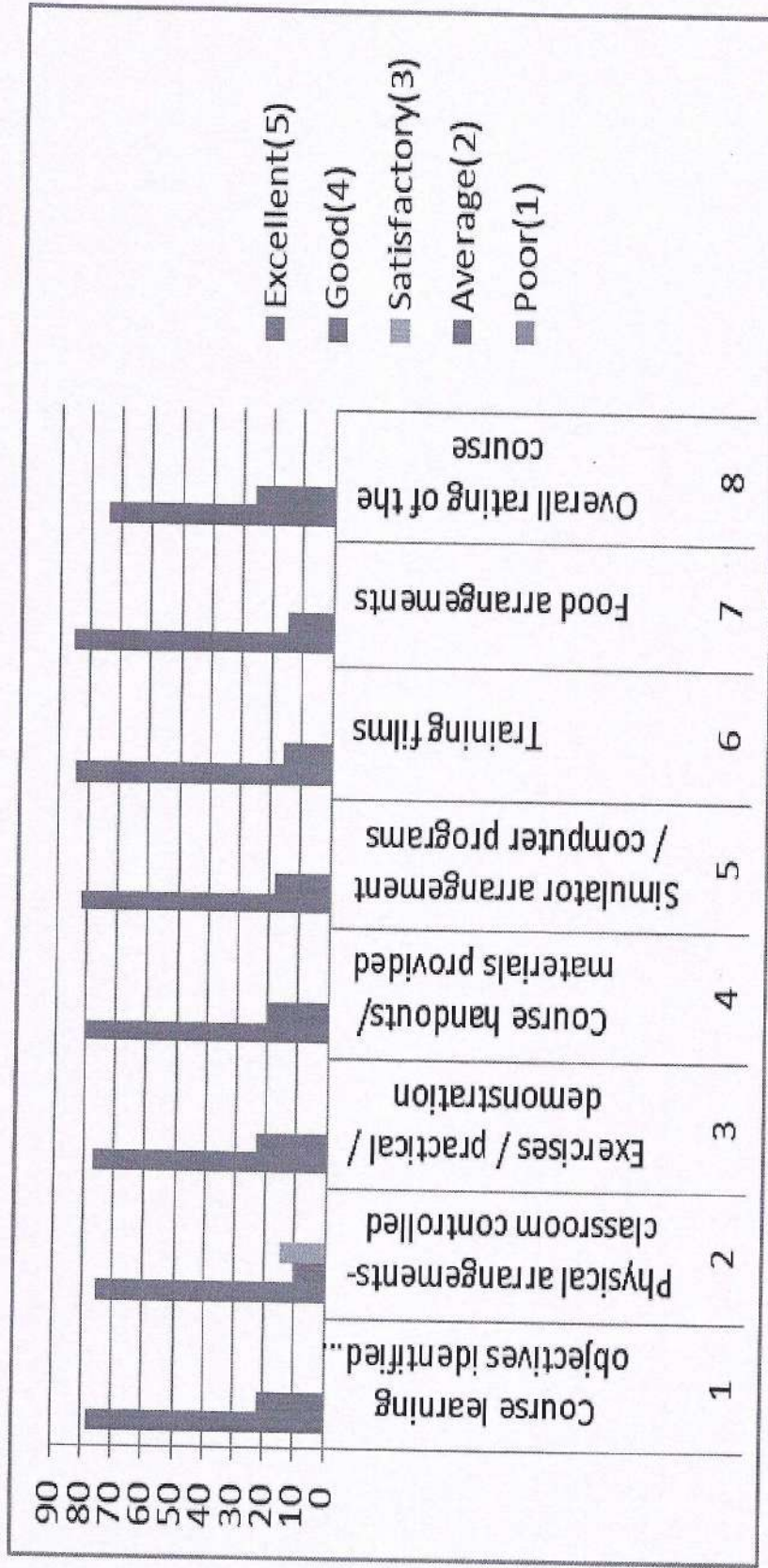
Course Name : Personal Survival Technique (PST)

| S.No | Course Feedback                                    | Excellent(5) | Good(4) | Satisfactory(3) | Average(2) | Poor(1) |
|------|----------------------------------------------------|--------------|---------|-----------------|------------|---------|
| 1    | Course learning objectives identified and achieved | 78           | 22      |                 |            |         |
| 2    | Physical arrangements- classroom controlled        | 75           | 10      | 15              |            |         |
| 3    | Exercises / practical / demonstration              | 77           | 23      |                 |            |         |
| 4    | Course handouts/ materials provided                | 80           | 20      |                 |            |         |
| 5    | Simulator arrangement / computer programs          | 82           | 18      |                 |            |         |
| 6    | Training films                                     | 84           | 16      |                 |            |         |
| 7    | Food arrangements                                  | 85           | 15      |                 |            |         |
| 8    | Overall rating of the course                       | 74           | 26      |                 |            |         |



# AMET

ACADEMY OF MARITIME EDUCATION AND TRAINING



**Summary:**

Course learning objectives identified and achieved has been found satisfactory. Course handouts/ materials provided are also good. Need to take care of Physical arrangements- classroom controlled.

**Findings:**

From the feedback of Student the department observed that:

1. Physical arrangements- classroom controlled need to improve.
2. Overall rating of the course found satisfactory.

**Action Plan:**

Based on the observation the department planned to improve the above suggestion in order to enhance the quality of students.

**Action Taken Report:**

As per the students feedback it is found that Physical arrangements- classroom controlled is seems to be improved. In order to improve that the faculties are advised to arrange the proper class rooms to the students.

BE MAINE 16 [10 fff] PST

3







# **Engine Room Simulator**

**ERS L11 5L90MC – VLCC**  
**Version MC90-V**

## **Operator's Manual**

### **Part 3**

## **Machinery & Operation**

| Section                                                 | Page      |
|---------------------------------------------------------|-----------|
| <b>1 SEQUENCE DIAGRAMS .....</b>                        | <b>2</b>  |
| 1.1 First start to own supply .....                     | 2         |
| 1.2 Own supply to harbour condition .....               | 3         |
| 1.3 Harbour condition to ready for departure.....       | 4         |
| 1.4 Manoeuvre mode to sea passage mode .....            | 5         |
| <b>2 ELECTRICAL PLANT .....</b>                         | <b>7</b>  |
| 2.1 Electrical Power Plant MD70 .....                   | 7         |
| 2.2 Diesel Generators MD75 .....                        | 13        |
| 2.3 Synchroscope MD142 .....                            | 19        |
| 2.4 Shaft Generator/Motor MD77.....                     | 21        |
| 2.5 Main Switchboard-Starter section MD71 .....         | 25        |
| 2.6 Main Switchboard-Starter section MD72 .....         | 27        |
| 2.7 Emergency Switchboard MD73.....                     | 29        |
| <b>3 MAIN ENGINE AND MAIN ENGINE SYSTEMS .....</b>      | <b>31</b> |
| 3.1 Main Engine .....                                   | 31        |
| 3.2 ME Lubrication Oil System MD12 .....                | 35        |
| 3.3 ME Bearings MD29 .....                              | 39        |
| 3.4 ME Cylinders MD21 .....                             | 43        |
| 3.5 ME Piston Ring Monitor MD27 .....                   | 45        |
| 3.6 Fresh Water Cooling System MD10 .....               | 47        |
| 3.7 Fuel Oil System MD11 .....                          | 51        |
| 3.8 ME Fuel Oil High Pressure System MD28 .....         | 57        |
| 3.9 ME Turbocharger System MD13 .....                   | 59        |
| 3.10 ME Selective Catalytic Reduction MD14 .....        | 63        |
| 3.11 ME Local Control MD20 .....                        | 67        |
| 3.12 ME Manoeuvring System MD18 .....                   | 71        |
| 3.13 Cylinder Indications MD120 .....                   | 75        |
| 3.14 Load Diagram MD128 .....                           | 85        |
| <b>4 PROPELLER AND STEERING GEAR SYSTEMS MD53 .....</b> | <b>89</b> |
| 4.1 Propeller Servo Oil System MD53 .....               | 89        |
| 4.2 Stern Tube System MD54.....                         | 91        |
| 4.3 Steering Gear System MD58.....                      | 93        |
| <b>5 SERVICE SYSTEMS .....</b>                          | <b>99</b> |
| 5.1 Main Sea Water System MD01 .....                    | 99        |
| 5.2 Air Ventilation System MD40 .....                   | 103       |
| 5.3 Starting Air Compressors MD59 .....                 | 105       |
| 5.4 Service Air Compressors MD60 .....                  | 109       |

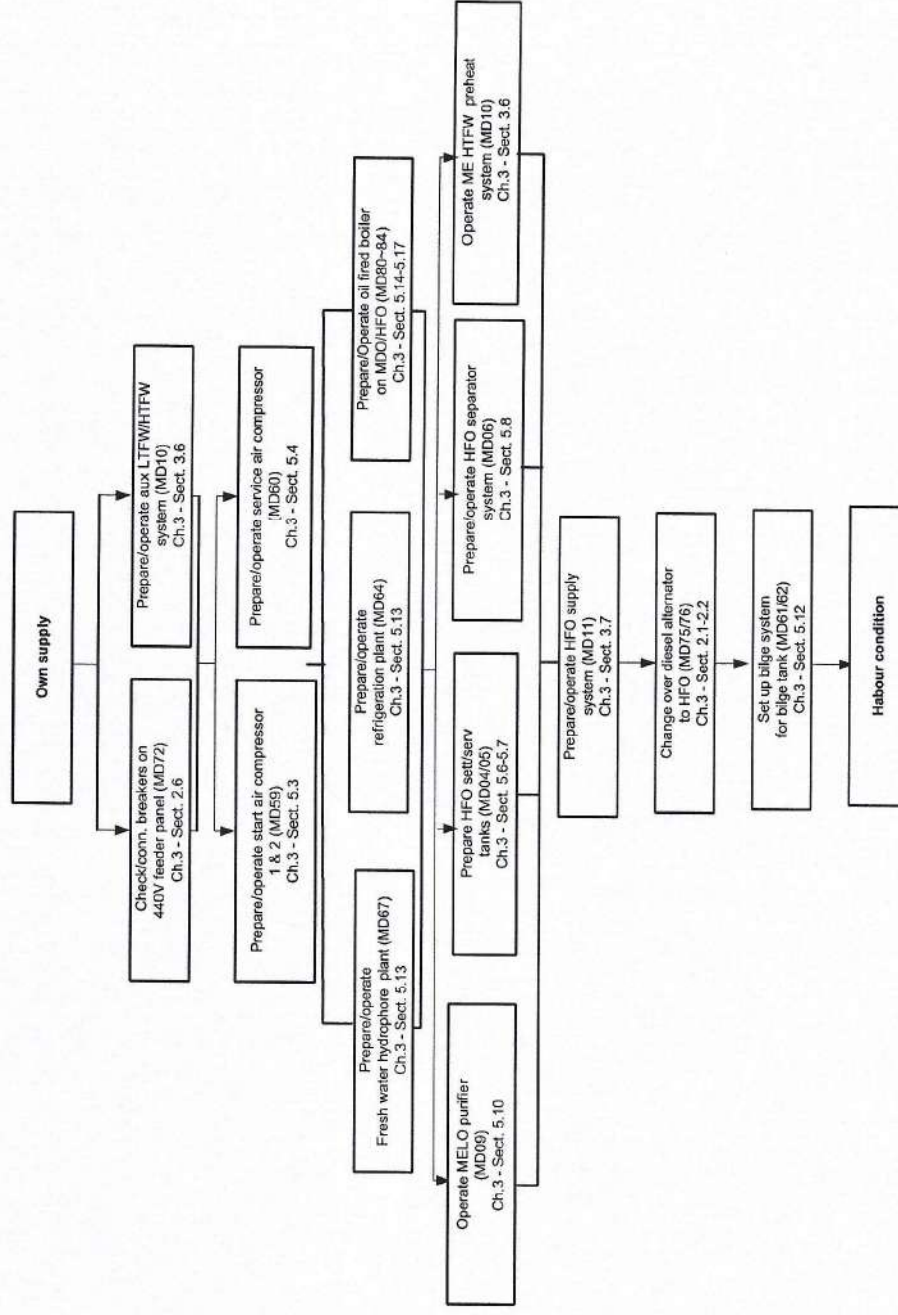
The Process diagrams presented on the monitors have the following colour codes for pipelines:

- Blue: Fresh water (low and high temperature)
- Green: Sea water
- Yellow: Diesel oil
- Brown: Fuel oil
- Light brown: Lubrication oil
- Grey: Start and service air
- Light blue: Steam

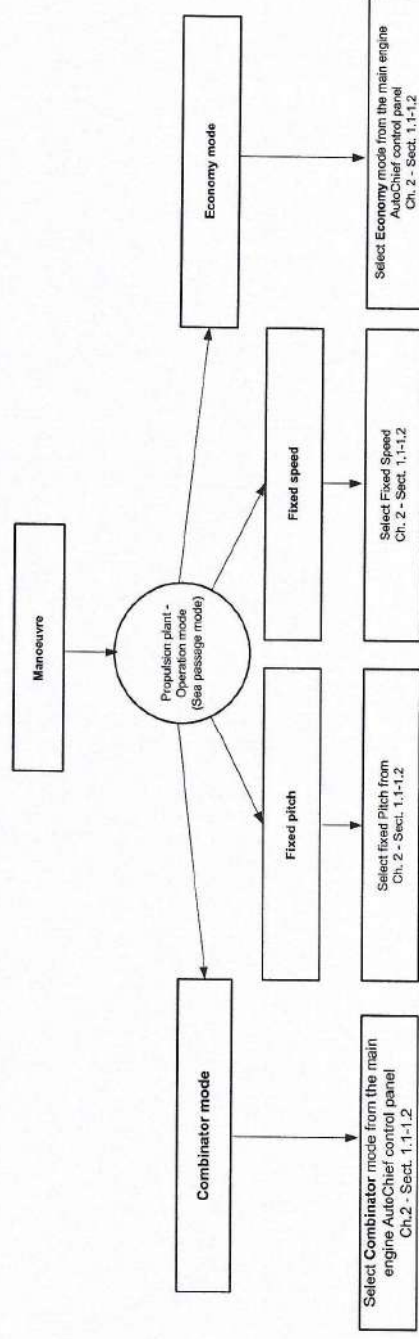
The Process Diagrams are abbreviated T, G, P, etc.; meaning:

|    |                                                         |
|----|---------------------------------------------------------|
| T: | Temperature                                             |
| G: | Flow                                                    |
| P: | Pressure                                                |
| N: | Rpm                                                     |
| Q: | Power                                                   |
| I: | Ampere                                                  |
| U: | Voltage                                                 |
| F: | Frequency                                               |
| E: | Electrical power                                        |
| V: | Valve                                                   |
| L: | Level                                                   |
| X: | Miscellaneous variable                                  |
| Z: | Water or other undesirable contamination index variable |
| W: | Viscosity                                               |

## 1.2 Own supply to harbour condition



## 1.4 Manoeuvre mode to sea passage mode



## 2 ELECTRICAL PLANT

### 2.1 Electrical Power Plant MD70

#### General

The ship's electric power is generated by:

- two diesel engine driven synchronous generators - diesel generator 1 (DG1) and diesel generator 2 (DG2)
- one turbine driven generator.
- one propeller shaft driven synchronous generator, with power take in facility.
- one emergency generator

and distributed via:

- one main switchboard, divided into two main 440V bus bars
- one 220v bus bar
- one emergency bus bar
- one 220v emergency bus bar

Bus bar 1 powers all the electrical main consumers and the emergency bus bar.

Bus bar 2 powers the bow thruster and the heavy deck machinery.

The 220v bus bar is supplied from bus bar 1 via a circuit breaker and transformer.

The emergency switchboard supplies the emergency 220v bus bar via a circuit breaker and transformer. Emergency batteries are supplied by two battery chargers, one for starting battery and one for emergency supplies.

The bus bars can also be supplied via a shore connection link that has the ability to alter phase rotation to ensure that motors turn in the correct direction.

#### Description

The status of all prime movers is indicated, with the diesel generators having a remote start available.

The emergency generator can be set to either AUTO or MAN mode. It is normally kept in AUTO. Test 1 starts the generator, test 2 connects the breaker while disconnecting the emergency bus bar from the main bus bar. In AUTO mode if power is lost to the emergency bus bar the generator starts and connects automatically. Reconnecting the emergency bus bar to a live main bus bar automatically stops the generator.

The shaft generator can be connected to the main engine by operating the clutch. The clutch will not close if the PTI shaft speed is above 300rpm.

Each generator is excited by an AVR based on a PI controller. Changing the excitation setting alters the controller base setting.



## Operation

### 1. Shore Connection.

- 1.1 Ensure all generators disconnected, emergency bus bar and bus tie disconnected.
- 1.2 Connect incoming cable.
- 1.3 Check phase rotation, use phase twist if required.
- 1.4 Close shore circuit breaker to supply main bus.
- 1.5 Close emergency bus if required or starting from cold and continue start sequence.
- 1.6 Shore circuit breaker must be tripped before connecting main generator to bus.

### 2. Emergency Generator Starting

- 2.1 Ensure battery voltage is correct. MD73.V72691.
- 2.2 Generator in manual operation press start.
- 2.3 Turn on voltage control and adjust to 440v.
- 2.4 Use governor control to give 60Hz output.
- 2.5 Connect emergency generator breaker.
- 2.6 Trip main bus breaker connection to emergency bus.

### 3. Emergency Generator Stopping

- 3.1 Ensure that main bus bar has supply.
- 3.2 Connect main bus bar breaker connection to emergency bus.
- 3.3 Open emergency generator breaker.
- 3.4 Stop generator.

### 4. Emergency Generator Automatic Operation

- 4.1 The generator is normally in AUTO, voltage control on, circuit breaker open.

- 4.2 If supply is lost to the emergency switchboard the generator will automatically start and close the circuit breaker supplying the emergency bus.
- 4.3 The main bus will be isolated due to the connection circuit breaker opening on low voltage.
- 4.4 When the emergency bus is again supplied from the main bus, connection circuit breaker closed, the emergency generator will automatically stop and open the circuit breaker.

### 5. Emergency Generator Testing

- 5.1 The generator should be tested regularly to ensure that it will function when required.
- 5.2 With the generator in AUTO, TEST 1 will simulate low voltage on the emergency bus causing the generator to start.
- 5.3 The generator will attempt a maximum of three starts.
- 5.4 Releasing TEST 1 the generator stops.
- 5.5 Before using TEST 2 the bridge must be informed and check that the elevator is not in use. TEST 2 will temporarily interrupt the emergency supply.
- 5.6 TEST 2 disconnects the emergency bus from the main bus simulating total supply failure, the generator starts and supplies the emergency bus.
- 5.7 Releasing TEST 2 reconnects the emergency bus to the main bus and the generator stops.