



NONRESIDENT TRAINING COURSE

APRIL 2001



Damage Controlman

NAVEDTRA 14057

Although the words “he,” “him,” and “his” are used sparingly in this course to enhance communication, they are not intended to be gender driven or to affront or discriminate against anyone.

PREFACE

By enrolling in this self-study course, you have demonstrated a desire to improve yourself and the Navy. Remember, however, this self-study course is only one part of the total Navy training program. Practical experience, schools, selected reading, and your desire to succeed are also necessary to successfully round out a fully meaningful training program.

COURSE OVERVIEW: Damage Controlman, NAVEDTRA 14057, consists of chapters on the Damage Controlman Rating; Damage Control Organization, Communication, and Information; Ship Compartmentation and Watertight Integrity; Fire-Fighting Fundamentals; Portable Fire-Fighting and Dewatering Equipment; Fire-Fighting Systems; Fire-Fighting Tactics; Battle Damage Repair; Chemical and Biological Warfare Defense; Radiological Effects; Radiological Defense and Recovery; Ship Stability and Buoyancy; and Shipboard Damage Control Training.

THE COURSE: This self-study course is organized into subject matter areas, each containing learning objectives to help you determine what you should learn along with text and illustrations to help you understand the information. The subject matter reflects day-to-day requirements and experiences of personnel in the rating or skill area. It also reflects guidance provided by Enlisted Community Managers (ECMs) and other senior personnel, technical references, instructions, etc., and either the occupational or naval standards, which are listed in the *Manual of Navy Enlisted Manpower Personnel Classifications and Occupational Standards*, NAVPERS 18068.

THE QUESTIONS: The questions that appear in this course are designed to help you understand the material in the text.

VALUE: In completing this course, you will improve your military and professional knowledge. Importantly, it can also help you study for the Navy-wide advancement in rate examination. If you are studying and discover a reference in the text to another publication for further information, look it up.

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Sailor's Creed

"I am a United States Sailor.

I will support and defend the
Constitution of the United States of
America and I will obey the orders
of those appointed over me.

I represent the fighting spirit of the
Navy and those who have gone
before me to defend freedom and
democracy around the world.

I proudly serve my country's Navy
combat team with honor, courage
and commitment.

I am committed to excellence and
the fair treatment of all."

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INSTRUCTIONS FOR TAKING THE COURSE

ASSIGNMENTS

The text pages that you are to study are listed at the beginning of each assignment. Study these pages carefully before attempting to answer the questions. Pay close attention to tables and illustrations and read the learning objectives. The learning objectives state what you should be able to do after studying the material. Answering the questions correctly helps you accomplish the objectives.

SELECTING YOUR ANSWERS

Read each question carefully, then select the BEST answer. You may refer freely to the text. The answers must be the result of your own work and decisions. You are prohibited from referring to or copying the answers of others and from giving answers to anyone else taking the course.

SUBMITTING YOUR ASSIGNMENTS

To have your assignments graded, you must be enrolled in the course with the Nonresident Training Course Administration Branch at the Naval Education and Training Professional Development and Technology Center (NETPDTC). Following enrollment, there are two ways of having your assignments graded: (1) use the Internet to submit your assignments as you complete them, or (2) send all the assignments at one time by mail to NETPDTC.

Grading on the Internet: Advantages to Internet grading are:

- you may submit your answers as soon as you complete an assignment, and
- you get your results faster, usually by the next working day (approximately 24 hours).

In addition to receiving grade results for each assignment, you will receive course completion confirmation once you have completed all the

assignments. To submit your assignment answers via the Internet, go to:

<http://courses.cnet.navy.mil>

Grading by Mail: When you submit answer sheets by mail, send all of your assignments at one time. Do NOT submit individual answer sheets for grading. Mail all of your assignments in an envelope, which you either provide yourself or obtain from your nearest Educational Services Officer (ESO). Submit answer sheets to:

COMMANDING OFFICER
NETPDTC N331
6490 SAUFLEY FIELD ROAD
PENSACOLA FL 32559-5000

Answer Sheets: All courses include one “scannable” answer sheet for each assignment. These answer sheets are preprinted with your SSN, name, assignment number, and course number. Explanations for completing the answer sheets are on the answer sheet.

Do not use answer sheet reproductions: Use only the original answer sheets that we provide—reproductions will not work with our scanning equipment and cannot be processed.

Follow the instructions for marking your answers on the answer sheet. Be sure that blocks 1, 2, and 3 are filled in correctly. This information is necessary for your course to be properly processed and for you to receive credit for your work.

COMPLETION TIME

Courses must be completed within 12 months from the date of enrollment. This includes time required to resubmit failed assignments.

PASS/FAIL ASSIGNMENT PROCEDURES

If your overall course score is 3.2 or higher, you will pass the course and will not be required to resubmit assignments. Once your assignments have been graded you will receive course completion confirmation.

If you receive less than a 3.2 on any assignment and your overall course score is below 3.2, you will be given the opportunity to resubmit failed assignments. **You may resubmit failed assignments only once.** Internet students will receive notification when they have failed an assignment--they may then resubmit failed assignments on the web site. Internet students may view and print results for failed assignments from the web site. Students who submit by mail will receive a failing result letter and a new answer sheet for resubmission of each failed assignment.

COMPLETION CONFIRMATION

After successfully completing this course, you will receive a letter of completion.

ERRATA

Errata are used to correct minor errors or delete obsolete information in a course. Errata may also be used to provide instructions to the student. If a course has an errata, it will be included as the first page(s) after the front cover. Errata for all courses can be accessed and viewed/downloaded at:

<http://www.advancement.cnet.navy.mil>

STUDENT FEEDBACK QUESTIONS

We value your suggestions, questions, and criticisms on our courses. If you would like to communicate with us regarding this course, we encourage you, if possible, to use e-mail. If you write or fax, please use a copy of the Student Comment form that follows this page.

For subject matter questions:

E-mail: n314.products@cnet.navy.mil
Phone: Comm: (850) 452-1001, Ext. 1486
DSN: 922-1001, Ext. 1486
FAX: (850) 452-1370
(Do not fax answer sheets.)
Address: COMMANDING OFFICER
NETPDTC N314
6490 SAUFLEY FIELD ROAD
PENSACOLA FL 32509-5237

For enrollment, shipping, grading, or completion letter questions

E-mail: fleetservices@cnet.navy.mil
Phone: Toll Free: 877-264-8583
Comm: (850) 452-1511/1181/1859
DSN: 922-1511/1181/1859
FAX: (850) 452-1370
(Do not fax answer sheets.)
Address: COMMANDING OFFICER
NETPDTC N331
6490 SAUFLEY FIELD ROAD
PENSACOLA FL 32559-5000

NAVAL RESERVE RETIREMENT CREDIT

If you are a member of the Naval Reserve, you may earn retirement points for successfully completing this course, if authorized under current directives governing retirement of Naval Reserve personnel. For Naval Reserve retirement, this course is evaluated at 12 points. (Refer to *Administrative Procedures for Naval Reservists on Inactive Duty*, BUPERSINST 1001.39, for more information about retirement points.)

Student Comments

Course Title: Damage Controlman

NAVEDTRA: 14057 **Date:** _____

We need some information about you:

Rate/Rank and Name: _____ SSN: _____ Command/Unit _____

Street Address: _____ City: _____ State/FPO: _____ Zip _____

Your comments, suggestions, etc.:

Privacy Act Statement: Under authority of Title 5, USC 301, information regarding your military status is requested in processing your comments and in preparing a reply. This information will not be divulged without written authorization to anyone other than those within DOD for official use in determining performance.
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NETPDTC 1550/41 (Rev 4-00)

CHAPTER 1

DAMAGE CONTROLMAN RATING

Learning Objectives: Recall the primary duties and responsibilities of personnel in the Damage Controlman rating, the duties and responsibilities for damage control of other key personnel in the chain of command, and the various damage control administrative programs, directives, and reports.

The Damage Controlman rating is a general rating and has no service ratings associated with it. As you become familiar with the requirements for advancement in this rating, you will recognize that the requirements for the rating are quite extensive.

RATING RESPONSIBILITIES

Learning Objective: Recall the duties and responsibilities of the Damage Controlman rating.

As a Damage Controlman, your tasks and duties will include the following:

- Organizational and intermediate level maintenance and repair of damage control equipment and systems.
- Plan, supervise, and perform tasks necessary for damage control, ship stability, preservation of watertight integrity, fire fighting, and chemical, biological, and radiological (CBR) warfare defense.
- Instruct and coordinate damage control parties.
- Instruct personnel in the techniques of damage control and CBR defense.
- Supervise and perform tasks in procurement and issuance of supplies and repair parts; and prepare records and reports.

LEADERSHIP

As you advance in the Damage Controlman (DC) rating, you will have increasing responsibilities for military and technical leadership. Every petty officer must be a military leader as well as a technical specialist; however, your responsibilities are unique to the DC rating and are directly related to the nature of your work. Your ability to lead others is particularly important because in casualty situations damage control often becomes an “all-hands” evolution. In

these situations, a Damage Controlman holds a key position in the damage control organization and is required to coordinate the efforts of others for the successful control of damage. For these reasons, you must possess qualities of leadership as well as be highly skilled and knowledgeable in the field of damage control.

Organization and teamwork are the keys to successful damage control. Strong leadership is required to keep the organization functioning and to ensure effective teamwork needed to meet the following goals:

1. Preserve or reestablish watertight integrity, stability, maneuverability, and offensive power.
2. Control list and trim.
3. Repair material and equipment.
4. Limit the spread of, and provide protection from fire.
5. Limit the spread of, remove the contamination by, and provide adequate protection against chemical and biological agents or noxious gases and nuclear radiation.
6. Care for wounded personnel.

BASIC OBJECTIVES OF DAMAGE CONTROL

Shipboard damage control is designed to work toward three basic objectives. These objectives are as follows:

1. Take all practicable preliminary measures to prevent damage.
2. Minimize and localize damage as it occurs.
3. Accomplish emergency repairs as quickly as possible, restore equipment to operation, and care for injured personnel.

The damage control organization has the same objectives whether the country is at peace or at war. The ship's ability to perform its mission will depend upon the effectiveness of its damage control organization.

To attain these objectives, we must accomplish the following:

1. Preserve stability and fume-tight and watertight integrity (buoyancy).
2. Maintain the operational capabilities of vital systems.
3. Prevent, isolate, combat, extinguish, and remove the effects of fire and explosion.
4. Detect, confine, and remove the effects of chemical, biological, or radiological contamination.
5. Prevent personnel casualties and administer first aid to the injured.
6. Make rapid repairs to correct structural and equipment damage.

AREAS OF RESPONSIBILITY

The three primary areas of responsibility for damage control include the following:

1. The functional combination of all equipment, material, devices, and techniques that prevent and minimize damage and restore damaged equipment and structures. This damage can occur in wartime or peacetime.
2. The passive defense against conventional, nuclear, biological, and chemical warfare.
3. All active defense measures short of those designed to prevent successful delivery of an enemy attack by military means or sabotage.

PROFESSIONAL DEVELOPMENT

Because damage control covers a wide variety of areas, training is essential for an effective emergency party. This training is accomplished in several ways. You may learn through schools, correspondence courses, on-the-job training, shipboard training lectures, and films. Most of the training programs available are explained in the following paragraphs.

Navy Schools

There are a number of Navy schools to train personnel in damage control. Your damage control assistant normally requests quotas to send a complete repair party to a school as a unit. Members of the repair parties train together and learn to work as a unit. These schools include shipboard damage control, shipboard fire fighting, and aviation fire fighting. Figure 1-1 shows fire-fighting training being conducted at the Damage Control School in Great Lakes, Illinois. Refer

to the *Catalog of Navy Training Courses (CANTRAC)* for the latest listing of courses available. This catalog is available from your Education Services Office (ESO).



Figure 1-1. Damage control team training.

Nonresident Training Course

This nonresident training course (NRTC) is designed for the Damage Controlman rating. There are other recommended courses that are good sources of training; a good example is *Blueprint Reading and Sketching*, NAVEDTRA 82014. This and other courses may be ordered through your ESO.

On-the-Job Training

Another method of training is on-the-job training. This training method allows you to learn while performing your daily tasks. Your fellow workers and supervisors may teach you by sharing their knowledge with you. Additionally, you may learn on your own by studying applicable publications.

On-the-job training is also carried out through emergency drills. These drills help train emergency party personnel to perform their assignments in a professional manner. The drills also train individuals to work together as an effective unit.

Sources of Information

There are many valuable sources of information about damage control. Some of the more important of these sources of information that you should become familiar with are stated below.

MANUFACTURERS' TECHNICAL MANUALS.—You should have access to the manufacturer's technical manuals for your equipment. These manuals provide information on the operation, maintenance, and repair of a specific piece of equipment, and you should always use the one for the equipment you are required to work on.