

**NAVSEA SHIPYARD INSTRUCTIONAL DESIGN CENTER
NORFOLK NAVAL SHIPYARD, CODE 1170
PORTSMOUTH, VA 23709-5000**

12410
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19 Aug 04

From: Director, NAVSEA Shipyard Instructional Design Center
To: Distribution List

Subj: FY-05 SHIP PROPELLER TRAINING COURSES

Ref: (a) NAVSEAINST 9245.1A of 19 Feb 88
(b) Naval Ships Technical Manual S9086-HP-STM-010/CH-245

Encl: (1) Class dates for FY 05
(2) Propeller Visual Inspection Course Technical Program Data
(3) Propeller Certification Course Technical Program Data
(5) NAVSEA SIDC Student Nomination Form
(6) Visitor Request form (OPNAV 5521)

1. The scheduled dates for the FY-05 Department of the Navy (DoN), Naval Sea Systems Command (NAVSEA) **Propeller Visual Inspection**, and **Propeller Certification** course training are shown in Enclosure 1.
2. Enclosures (2), (3), and (4) contain detailed information concerning course scope and purpose, prerequisites for students, tuition costs, class size, and security requirements.
3. To secure billets and provide student information, please complete Enclosure (5) and (6) for each nominee and forward to:

**Director, NAVSEA SIDC, Code 1170
Norfolk Naval Shipyard, Building 13
Portsmouth, VA 23709-5000**

Enclosures (5) and (6) can also be **FAXed to DSN 386-4682 or (757) 396-4682.**

4. **Class size is limited**, and billets are assigned on a first-come, first-served basis. Activities sending personnel who are **not** U.S. citizens **must** receive **NAVSEA 09TLE** approval prior to requesting billets. Notification via letter or e-mail confirming billets will be sent to each sponsoring activity requesting appropriate funding document. Funding documents should be submitted to NAVSEA SIDC. Billets will be reassigned if funding documents are not received within 30 days of confirmation. To expedite processing, activities may submit funding documents at the time of initial request(s) for billeting. Due to vendor contracts, there will be **no refunds for cancellations requested within 45 days of the start of training.** However, substitutions will be accepted for individuals meeting course prerequisites where applicable.

5. Visitor badges must be picked up prior to class at the NNSY Badge and Pass Office, Building 1502, located directly off Effingham Street, approximately 1 mile south of I-264/Downtown Tunnel. NAVSEA SIDC will meet attendees at the Badge and Pass Office at 0700 the first day of class to help expedite issue of visitor badges and parking permits. Students must have vehicle registration and proof of insurance (for POVs) or rental contract (for rental cars) in order to obtain a parking permit. Training will be conducted at the NAVSEA Training Facility in Building 278, in the north end of the Shipyard, right beside the Hammerhead Crane. Attendees may park in general parking lots (Zone N) across the street from Building 278. Vehicle towing is strictly enforced for parking in spaces marked "Reserved." Military dress code is not enforced at the training center during class. Recommend appropriate civilian attire for working in light industrial areas (i.e., jeans or coveralls). Final examinations are conducted on the last day of class. Commands should not schedule return travel on the last day of class prior to 1900 hours.

6. It is recommended that a copy of this announcement letter be provided to each student nominated for training. This information is also located on the SIDC web site, <http://infoweb.nnsy.navy.mil/sidc/home.htm> - Naval Shipyard LAN; <http://www.navsea.navy.mil/sidc/home.htm> - World Wide Web (Public Site). For course administrative information, please contact **Mr. Richard Payne**, NAVSEA SIDC, **DSN 386-5802 or (757) 396-5802**, e-mail paynerc@nnsy.navy.mil. For technical information, contact the NAVSEA instructor, **Mr. Paul Moore**, NAVSEA 05H1 at **DSN 336-4295 or (202) 781-4295**, e-mail moorepr@navsea.navy.mil.


JOHN R. LORTS

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Copy to:

SEA 05H1 (R. Crockett, P. Moore)
NAVSEA SIDC (J.Cartmell, R. Payne, G. Vann)
NAVSEA 09TLE (Diane Dixon)
DCMA (C. Guedel)

CLASS DATES FOR NAVSEA SHIP PROPELLER TRAINING, FY 2005

COURSE TITLE

CONVENE DATES

Ship Propeller Visual Inspection

Nov 1-5, 2004

Ship Propeller Visual Inspection

Feb 7-11, 2005

Ship Propeller Certification

Mar 9-23, 2005

Ship Propeller Visual Inspection

Apr 25-29, 2005

Ship Propeller Visual Inspection

Jun 13-17, 2005

Ship Propeller Visual Inspection

Aug 1-5, 2005

1. Course Title: *PROPELLER VISUAL INSPECTION*

2. Responsibility: Navy and civilian dive shops as well as storage, installation and repair facilities are required to have qualified personnel available to perform visual inspections of propulsors for Department of the Navy ships. These requirements are specified in NAVSEAINST 9245.1 and Naval Ships Technical Manual S9086-HP-STM-010/CH-245. Strict adherence to these requirements is mandatory.

3. Purpose: To train personnel to perform and document propeller visual preservation and technical inspections.

4. Attendees: Personnel (military and civilian) such as divers, supply and storage system personnel, repair shop personnel, and ship repair personnel who perform or plan to perform visual inspections of propellers upon receipt, prior to shipment, while in storage, before and after repair, and/or while installed shipboard.

5. Prerequisites: Prior propeller experience is recommended.

6. Length of Course: 40 hours (Approximately 1-2 hours of after hour study time required daily)

7. Instructional Methods:

- a. Instructor lecture discussion with visual aides
- b. Student self study guide
- c. Practical demonstration on training aide mockups
- d. Work experience assignments on training aides
- e. Written examinations (to qualify as a visual inspector)
 - (1) Satisfactory prepared visual inspection report
 - (2) Final examination with minimum passing score of 80 percent

8. Course Outline:

- a. Propeller terminology, blade configuration and numbering
- b. Preservation, packaging and storage requirements
- c. Visual inspection process and procedures

9. Location: Norfolk Naval Shipyard, Building 278, Portsmouth, VA

10. Tuition: \$1,200.00 per student

11. Class Size: Minimum - 12 students
Maximum - 16 students

12. Confidential Briefing: Participants must show level of security held prior to briefing. Please send security verification to NAVSEA SIDC prior to class. Fax (757) 396-4682.

13. Points of Contact:

Administrative; Richard Payne, NAVSEA SIDC, DSN 961-5802 or (757) 396-5802
Technical; Paul Moore, Instructor, NAVSEA 05H1, DSN 336-4295 or (202) 781-4295

1. Course Title: *PROPELLER CERTIFICATION*

2. Responsibility: It is the responsibility of all activities involved in the manufacture, repair and inspection of naval ship propellers to adhere to the requirements of NAVSEAINST 9245.1 and NAVSEA S9245-AR-TSM-010/PROP. It is essential for all applicable addressees to have knowledge of the current requirements and technical information for propeller inspection and certification, and to have qualified personnel available for the effort.

3. Purpose: To train personnel the proper methods and procedures of performing and documenting propeller visual and dimensional inspections.

4. Attendees: Navy, civilian, and contractor personnel involved in the dimensional inspection, repair, and/or certification of U.S. naval ship propellers.

5. Prerequisites: Successful completion of the Propeller Visual Inspection course is required within the last 5 years. Attendees should be familiar with basic propeller geometry and repair techniques. Attendees should also have a fairly strong math background since the course frequently uses terms and functions such as sin, cosine, tangent, perpendicular, parallel, etc. Attendees are required to solve simple algebraic and trigonometric equations during training and must bring personal scientific calculators with trigonometric functions.

6. Length of Course: 88 hours (Approx. 1-2 hours of after hours study time required daily)

7. Instructional Methods:

- a. Instructor lecture discussion with visual aides
- b. Student self study guide
- c. Practical demonstration on training aide mockups
- d. Work experience assignments on training aides
- e. Written examinations (to become certified)
 - (1) Satisfactory review of propeller dimensional inspection report with a minimum passing score of 80 percent
 - (2) Final examination with a minimum passing score of 80 percent

8. Course Outline:

- a. Propeller terminology
- b. Propeller repair
- c. Blade gages - types, geometry and application
- d. Dimensional inspection process, procedure, and analysis

9. Location: Norfolk Naval Shipyard, Building 278, Portsmouth, VA

10. Tuition: \$2,600.00 per student

11. Class Size: Minimum - 8 students
Maximum - 12 students

12. Point of Contact:

- a. Administrative; Richard Payne, NAVSEA SIDC, DSN 961-5802 or (757) 396-5802
- b. Technical; Paul Moore, Instructor,

Enclosure (3)

NAVSEA SIDC STUDENT NOMINATION FORM

Department of the Navy, Ship Propeller Training Courses

Last Name	First	MI	Student I.D. (SSN)		
Mailing Address			City	State	Zip
Position Title		Rank/Grade		Shop/Code/Ship	
Phone Number		Facsimile Number		E-Mail Address	

Scheduled dates for *FY-05* propeller training are as follows: Please check course title and date of training desired. (For multiple candidates, copy as needed). Fax to NAVSEA SIDC, (757) 396-4682 or DSN 386-4682.

- | | | |
|------------------------------------|------------------------------|-------|
| <i>Propeller Visual Inspection</i> | <i>November 1 - 5, 2004</i> | _____ |
| <i>Propeller Visual Inspection</i> | <i>February 7 - 11, 2005</i> | _____ |
| <i>Propeller Certification</i> | <i>March 9 - 23, 2005</i> | _____ |
| <i>Propeller Visual Inspection</i> | <i>April 25 - 29, 2005</i> | _____ |
| <i>Propeller Visual Inspection</i> | <i>June 13 - 17, 2005</i> | _____ |
| <i>Propeller Visual Inspection</i> | <i>August 1 - 5, 2005</i> | _____ |

Activity Mailing Address: _____

Activity UIC: _____

Point of Contact: _____
Name Phone

FOR OFFICIAL USE ONLY

ALLOC LTR: _____ DATE: _____ TUITION RCVD _____

VISITOR REQUEST

VISITOR CLEARANCE DATA

CHECK ONE

REPLY REQUIRED

REPLY ONLY IF NEGATIVE

FROM (COMPLETE ADDRESS OF REQUESTING ACTIVITY)		UIC	DATE OF REQUEST	
TO: Commander, Norfolk Naval Shipyard ATTN: Badge and Pass Office Portsmouth, VA 23709-5000		SPECIFIC PERSONNEL OR SECTION OF COMMAND TO BE VISITED NAVSEA Hatch and Propeller Training Center, B278 POC: Richard C. Payne, C1170, tel 396-5802/396-1688		
_____ FOLD ON THIS LINE _____				
DURATION OF VISIT (ARRIVE)		(DEPART)		DEGREE OF ACCESS REQUIRED Confidential (Non-Nuclear)
PURPOSE OF VISIT/REMARKS (IF THE VISIT IS TO A CONTRACTOR FACILITY, INCLUDE CONTRACT NUMBER IF APPROPRIATE) Attend NAVSEA Ship Propeller Training				
NAME, RANK, TITLE OR POSITION	DATE AND PLACE OF BIRTH	NATIONALITY (CHECK ONE)		LEVEL OF SECURITY CLEARANCE
		U.S. CITIZEN		
		IMMIGRANT ALIEN		
		U.S. CITIZEN		
		IMMIGRANT ALIEN		
		U.S. CITIZEN		
		IMMIGRANT ALIEN		
		U.S. CITIZEN		
		IMMIGRANT ALIEN		
		U.S. CITIZEN		
		IMMIGRANT ALIEN		
		U.S. CITIZEN		
		IMMIGRANT ALIEN		
NAME, RANK AND TITLE OF OFFICIAL AUTHORIZING VISIT AND CLEARANCE		SIGNATURE		
COPY TO:				