


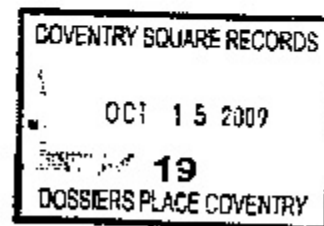
File Number: G 565-617-CTS
HRMIS Code Number: CL5503

Location: E-Division
Policy Centre:

Date: 2006-01-18
Amended: 2009-07-28

APPROVED (COURSE CONTENT):


C/Supt. W.A. (Bill) Dingwall
OIC, Pacific Region Training
2009-09-01



COURSE TRAINING STANDARD

ADVANCED WATER TRANSPORT COURSE

CTS PROTECTED "A"
COURSE PROTECTED "A"



Note: La version française est disponible sur demande

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Advanced Water Transport Course

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PART I

GUIDELINES FOR USING A COURSE TRAINING STANDARD (CTS)

PART I: Used by Human Resources Sector personnel, Client Services Managers, Human Resources Officers, regional/divisional training personnel, Career Development and Resourcing Advisors, centralized training personnel, course coordinators, Policy Centre personnel, managers, supervisors, resource people and course candidates to:

- get an overview of the course
- determine the purpose of the course
- select course candidates
- identify resource persons
- discuss session objectives
- prepare lesson plans
- develop tests
- critique sessions and course
- evaluate the course
- provide a standard for training
- follow-up on employee training
- submit course amendments

PART II: Used by Human Resources Sector personnel, regional/divisional training personnel, Career Development and Resourcing Advisors, centralized training personnel, course coordinators and resource people to:

- review special instructions
- access lesson plans
- access scenarios and role plays
- access performance assessment tools / assessment procedures
- access resource material
- review Challenge for Credit
- access tools for evaluation

GUIDELINES FOR USING A COURSE TRAINING STANDARD (CTS) (continued)

ROLES AND RESPONSIBILITIES

Human Resources Sector, Learning and Development Directorate (L&D)

- coordinate the national course development program
- research, design, develop and evaluate course detail, in consultation with appropriate partners and clients
- assign HRMIS Codes (a Code is assigned to each course)
- approve all CTSs
- update CTSs, in consultation with appropriate partners and clients
- P/A new and updated information to the appropriate CTS file
- review and maintain course material
- retain course information on content, resources and evaluations
- review proposals from regional/divisional training units for revisions to existing CTSs or the development of new CTSs, in consultation with appropriate partners and clients
- maintain the central repository of all master CTSs

Policy Centres

- recommend training based on operational needs
- approve CTSs for course content
- partner with L&D to develop/revise CTSs
- identify and communicate to L&D any changes/needs to update/maintain CTSs
- identify subject matter resources

Regional/Divisional Training Units

- research, design, develop and evaluate course detail, in consultation with appropriate partners and clients
- update CTSs, in consultation with appropriate partners and clients
- submit, in consultation with appropriate partners and clients, to L&D proposals for revisions to existing CTSs or the development of new CTSs
- input successful candidates to HRMIS
- identify learning events to obtain a HRMIS Code
- coordinate regional/divisional training
- review and maintain course material
- retain course information on content, resources and evaluations
- submit to L&D, for the CTS file, revisions to course material including lesson plans

PURPOSE OF COURSE

This course is designed to build on knowledge and skills gained through completion of the Basic Water Transport Course (BWT).

Learning Outcomes

Upon successful completion of this course, candidates will be able to:

Demonstrate skills and knowledge gained from the Basic Water Transport Course, specifically:

- Collision Regulations
- Lateral and Cardinal Buoyage systems
- Search and Rescue responsibilities
- Distress Signals
- Marine Distress Flares
- Cold Water Survival
- Knots and Ropes

Demonstrate knowledge of the care and maintenance of Advanced Water Transport, specifically:

- AWT equipment;
- Pre trip inspections and preparations
- Use of RCMP standardized Log Book
- Maintenance requirements

Demonstrate boat handling skills for Advanced Water Transport (single or twin engine), specifically:

- Maneuvering and Docking
- Securing to docks
- High speed handling
- Correct leg trim and trim tab adjustment
- Use of auxiliary kicker motor (if fitted)
- Launching / recovering from a trailer (if applicable / required)

Demonstrate applied practical knowledge of the use of Radar, specifically:

- Demonstrate knowledge of Radar;
- Basic theory of operation
- Display
- Button functions
- Setup
- Weather adjustments
- Collision avoidance

Explain the theory of navigation by GPS, specifically:

Basic theory of operation
Displays & Button functions
Menu settings & Setup
Navigation by GPS Way points & Routes
Chart Orientation (North Up, Course Up, Heads Up)

Explain the theory of navigation and collision avoidance by Radar, specifically:

Demonstrate use of Radar Overlay;
Range scales
How / when to use overlay
Radar adjustments in overlay mode

CANDIDATE SELECTION CRITERIA

Candidates for this course are RCMP members who are required to operate Advanced Water Transport (vessels equipped with Radar and GPS equipment).

Candidates for Advanced Water Transport training must:

- have successfully completed Basic Water Transport training CLSSOI
- hold valid MEDA3 & SVOP qualifications

INSTRUCTOR SELECTION CRITERIA

Instructors must hold MEDA3 & SVOP qualifications (or higher) and have extensive experience using Radar and GPS (including Chart Plotters).

Instructors must have training in instructional techniques or experience as an instructor.

COURSE DESCRIPTION

The Advanced Water Transport Course is a four day course (32 hours), but may be extended to five days (40 hours), at the instructor's discretion if necessary to ensure required competencies.

The student to instructor ratio for the Advanced Water Transport Courses will be 2 students: 1 instructor.

The course consists mostly of practical "hands on" training with the primary focus on the use of Radar and GPS for navigation and collision avoidance.

Ideally the Advanced Water Transport Course will be taught on site at Detachment locations using the Detachment AWT.

| Topic Number | Name of Topic | Main Teaching Points |
|--------------|------------------------------------|---|
| 1 | Course Orientation | <ul style="list-style-type: none">- Mutual Introductions- Syllabus- Assessments/Course expectations- Administration- Equipment |
| 2 | Basic Water Transport Review | <ul style="list-style-type: none">- Collision Regulations- Lateral and Cardinal Buoyage Systems- Search and Rescue Responsibilities- Distress Signals- Marine Distress Flares- Cold Water Survival- Knots and Ropes |
| 3 | General Knowledge of AWT Equipment | <ul style="list-style-type: none">- Pre-trip Inspections and Preparations- Use of RCMP Standardized Log Book- Maintenance Requirements |
| 4 | AWT Boat Handling | <ul style="list-style-type: none">- Maneuvering and Docking- Securing to Docks- High Speed Handling- Correct Leg Trim and Trim |

| | | |
|---|----------------------|---|
| | | Tab Adjustment - Use of Auxiliary “kicker” motor (if fitted) - Launching/Recovering from a Trailer (if applicable / required) |
| 5 | Radar | - Basic Theory of Operation - Display - Button Functions - Setup - Weather Adjustments - Collision Avoidance |
| 6 | GTS Chart Plotter | - Basic Theory of Operation - Displays - Menu Settings & Setup - Button Functions - Navigation by GPS Waypoints & Routes - Chart Orientation (North Up, Course Up, Heads Up) |
| 7 | Use of Radar Overlay | - Range Scales - How/When to use Overlay - Radar Adjustments in Overlay Mode |

INSTRUCTIONAL STRATEGIES

This course follows adult learning principles by making the content relevant to the candidates immediate needs; emphasizing practice rather than theory; requiring candidates to participate and by using varied learning strategies.

A variety of learning methods are used to facilitate the candidates learning, maintain their motivation and ensure better retention and application of skills and knowledge learned. The methods include: demonstrations, practical exercises, questions to candidates and coaching.

The training schedule can be very flexible to accommodate weather, darkness and problems which sometimes arise on short notice.

The instructor will ensure that all subject areas listed in the Skills Assessment Form are covered and tested. The instructor will provide corrective action and coaching throughout the course.

LEARNER ASSESSMENT

Participant knowledge at the end of the course is tested through a practical examination. Candidates will be given a destination and must demonstrate competency in the operation of:

AWT, Radar

GPS / Chart Plotter, specifically the following functions:

Radar - On / Off / Standby / Tuning functions / Weather Adjustments

GPS - Safe Routes - Create / Amend / Name / Save / Show / Clear

Plotter - Menus / North up / Heads up / Course up with Radar overlay

Students will not receive a written comment, and are not scored by percentile grade. The sections of the Assessment Form (see Appendix A) are signed off Day 1, Day 2/3 and Day 4 as Qualify or Not Qualify. This method of Qualify/Not Qualify is based on the example of the National Basic Water Transport standard Assessment Form.

Candidates who fail to demonstrate one or more of the required skills will receive as much remedial training as possible immediately.

Remedial training may require the addition of another training day. Time permitting this additional training day will be immediate.

If a candidate fails to demonstrate one or more of the required skills after receiving remedial training, he/she will not receive credit on HRMIS.

The instructor will notify the appropriate divisional training coordinator of candidate success or failure by completing and forwarding a Skills Assessment Form for each candidate.

REFERENCES AND RESOURCES

- Raymarine User Manual for RL70C Plotter & Radar (or other applicable model)
- Basic Water Transport Course Training Standard

COURSE EVALUATION

Formal Feedback:

Each time a course is delivered, and based on L&D policies and standards, the unit responsible for delivery is also responsible for the formal collection of evaluation data on:

1. **Evaluating Reaction** (i.e. the level of satisfaction of candidates with the course as delivered). Data is collected through the completion of session, practical exercise/scenario and end-of-course surveys by candidates.
2. **Evaluating Learning** (i.e. the effect of the course on candidates' learning). Data is collected through the completion of pre-learning and post-learning tests by candidates. See Learner Assessment.
3. **Evaluating Application and Implementation** (i.e. the transfer of what was learned on the course to the workplace). Data is collected through the completion of a survey by candidates and supervisors approximately three (3) to twelve (12) months after the conclusion of the course/program.

Informal Feedback:

Informal feedback is invited from all employees. Anyone wishing to, can inform Learning and Development Directorate of changes in administrative procedures and operational duties and responsibilities. When learning requirements change, the learning materials provided must be adjusted accordingly.

Please forward comments and suggestions to the Director General, Learning and Development

COURSE SYLLABUS AND TIMETABLE

RCMP - ADVANCED WATER TRANSPORT

Day 1

0800 - Introductions / Orientation

0830 - Proficiency testing and review (BWT)

- Collision Regulations

- Buoyage Systems

- SAR

- Flares

- Cold Water Survival

- Knots / Ropes

1130 - Lunch

1230 - Practical skills on boats

- General knowledge of equipment

- Pre trip preparation Logs

1300 - GPS Chart Plotter Introduction

- Menu / Set up functions

- Button functions

1400 - Boat operation / Boat handling

- Practical boat handling skills

- Twin engine operation (if applicable)

- Chart Plotter operation (Heads Up)

RCMP - ADVANCED WATER TRANSPORT

Day 2:

0800 - Practical skills on boats

Equipment checks

Start up

Chart Plotter set up

0830 - Chart Plotter work (Routes)

Create / Name / Save / Amend Routes

0900 - Practical work

Follow a planned Route / Amend as necessary

Use MOB (man overboard) button

Boat handling skills

Knots

1200 - Lunch

1300 - Radar Introduction

Radar controls / functions

Tuning/Weather adjustments

1330 - Radar Run

Short run using Radar alone

Radar Overlay demonstration

1530 - Refuel boat (if necessary)

Students to demonstrate safety procedures

RCMP - ADVANCED WATER TRANSPORT

Day 3:

Times to be adjusted for PST / PDST night run

1500 - Practical skills on boats

- Chart Plotter / Radar functions & controls review
- Create / Name / Save a Route
- Run the Route using Radar overlay in daylight
- Work on practical boat handling skills
- Run Auxiliary Engine (if fitted)

1800 - Dinner

Dark - Night Run

- Run Route using Radar overlay

Day 4

Start time to be adjusted depending on times from night run

0900 - GPS Plotter / Radar Review & Questions

1000 - Practical Skills

- Trailering (if required)
- Boat handling

1130 - Lunch

1230 - Practical Testing

- GPS Plotter knowledge and use
- Radar knowledge and use
- Students demonstrate knowledge by planning and
- Running a Route / using Radar overlay

1500 - Coaching (as required)

1530 - Course Critiques

CHALLENGE FOR CREDIT

There is no challenge for credit for AWT. All candidates must complete the course to the satisfaction of the instructor.

PART II

COURSE DELIVERY INSTRUCTIONS

The Advanced Water Transport is a practical “hands on” training course.

The course focuses on the use of Radar and GPS for navigation and collision avoidance and boat handling skills.

Ideally the Advanced Water Transport Course will be taught on site at Detachment locations using the Detachment boat. This will allow students to gain confidence and skill handling the particular vessel in their home Detachment area. Training at Detachment locations will also benefit the individual students by ensuring familiarization of their patrol area while under the supervision of a coach and trained navigator.

The student to instructor ratio for the Advanced Water Transport Courses will be 2 students: 1 instructor. This ratio will maximize the student's experience as he/she will either be operating the vessel or navigating and acting as look out at all times.

FACILITATOR'S GUIDE

There is no formal facilitator's guide that exists for this course.

