

# HUMMINBIRD SONAR TECHNICIAN



*Black Laser Learning*



L A CROSSE, WISCONSIN  
WITH THE LA CROSSE POLICE DEPARTMENT

JULY 13 - 14, 2021

## WHAT YOU NEED TO KNOW

**OBJECTIVE** • This course trains teams to utilize Humminbird Side Scan Sonar maximizing department financial and personnel resources for underwater search missions.

**JUSTIFICATION** • This training readies agency personnel for underwater searches using side scan sonar. Humminbird sonar units are cost effective and extremely versatile. Any response team expected to perform underwater searches benefits from this training.

**CERTIFICATION** • Humminbird Sonar Technician

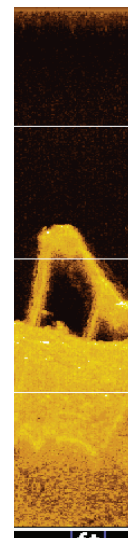
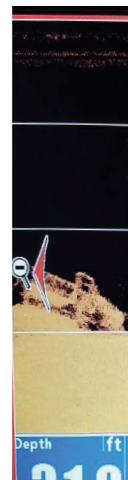
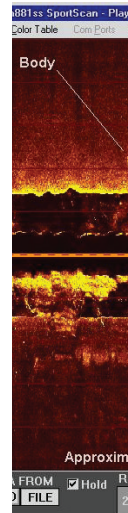
**RECOMMENDED FOR** • Anyone who responds to public safety underwater search events including divers and shore support.

**DURATION** • 2 Days / 16 training hours

**TUITION** • \$365.00 (US Funds) per student.

**BE SURE TO BRING** • US Coast Guard approved PFD with knife and whistle, adequate clothing and protection from the environment and pen and paper for note-taking and sketching.

**COURSE DEVELOPMENT** • Black Laser Learning, Inc. is a side scan and synthetic aperture sonar (SAS) technology company specializing in distilling complex technological subject matter into easy-to-understand, practical knowledge. Black Laser Learning training programs are designed for the military, Search and Rescue, and scientific communities.



## TOPICS

- Sonar Technology
- Sonar Frequencies
- Range vs. Resolution
- GPS and Sonar
- Sonar Shadows and Reflectivity
- Sonar Imagery
- Searching for Evidence and Weapons
- Where to Search
- Marking Targets
- Saving Data
- Post Mission Analysis
- Mastery of the Humminbird Unit
- Field Operations

## SCHEDULE

### DAY 1 of 2

- 8:00-8:30 Registration
- 8:30-12:00 Classroom
- 12:00-1:00 Lunch
- 1:00-5:00 Classroom

### DAY 2 of 2

- 8:00-5:00 Field Exercises



## LOCATION OF CLASS

Black River Ranch  
Neighborhood Center  
1433 Rose St.  
La Crosse, WI 54603

CLASS BEGINS AT 8:00 AM

# HUMMINBIRD SONAR TECHNICIAN

L A C R O S S E , W I S C O N S I N  
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## MAKING IT HAPPEN

### STUDENT PREREQUISITES

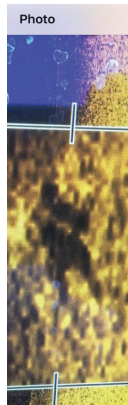
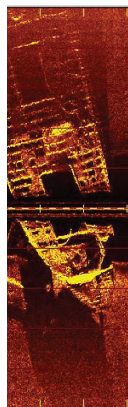
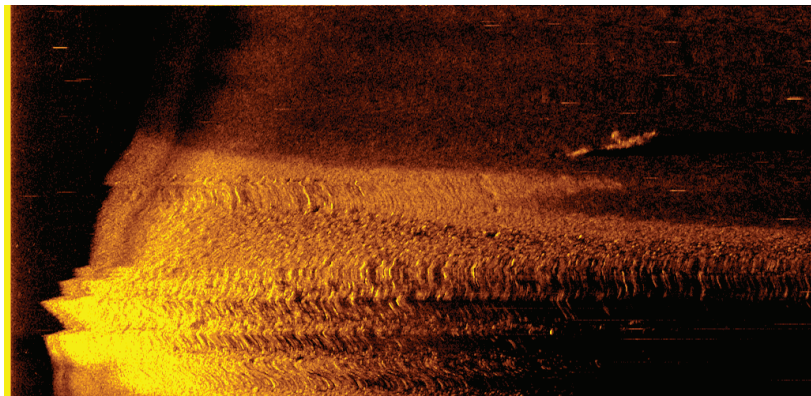
At least 18 years of age  
Member of a public safety agency

### TRAVEL

Check with Dive Rescue International and confirm class before making airline reservations.

### CANCELLATION

Prior to 3 weeks: Full Refund  
8-21 days prior: 50% Refund  
0-7 days prior: No refund



## SUGGESTED ACCOMMODATIONS

Hampton Inn & Suites  
511 3rd St N

La Crosse, WI 54601

GROUP RATE:

LaCrosse Police Department  
\$82.00 / night

### AIRPORT

LSE - La Crosse Regional  
13 minutes

### TO REGISTER

ONLINE

[www.DiveRescueIntl.com](http://www.DiveRescueIntl.com)

IN PERSON OR BY POSTAL SERVICE

201 N Link Ln  
Fort Collins, CO 80524

BY PHONE

(800) 248 - 3483 X. 18

FAX THIS FORM

(970) 482 - 0893

## PLEASE REGISTER ME

First Name \_\_\_\_\_ Last Name \_\_\_\_\_

Mailing Address \_\_\_\_\_

Best Phone \_\_\_\_\_ E-mail \_\_\_\_\_

Department \_\_\_\_\_ Department Phone \_\_\_\_\_

Payment Information (Credit Cards will be charged or Invoices will be sent 2 weeks before class)

☐ Personal Card

☐ Department Card

Credit Card Number \_\_\_\_\_ Exp \_\_\_\_\_ CVC \_\_\_\_\_

Billing Address \_\_\_\_\_

Name on Card \_\_\_\_\_ Phone Number \_\_\_\_\_

☐ Invoice my Department by Postal Service ☐ Invoice by E-mail

Purchase Order Number \_\_\_\_\_ **Please provide Dive Rescue International a copy of the PO**

Finance Department Phone Number \_\_\_\_\_

Finance Department Billing Address \_\_\_\_\_

Finance Department E-mail Address \_\_\_\_\_