

## **Advanced Joint Effectiveness Model (AJEM) Training Courses**

**Description:** The Advanced Joint Effectiveness Model (AJEM) is a stochastic, point-burst, terminal-effects simulation for estimating the effectiveness of munitions and for estimating the vulnerability and survivability of fixed-wing aircraft, rotary-wing aircraft, missiles, small watercraft, and ground-mobile targets. The courses below provide an introduction to the AJEM analysis process, including an overview of BRL-CAD and related tools for addressing geometric target models; navigation, setup, and analysis execution; documentation and available postprocessing tools; and analytical details for specific V/L and Endgame methodologies.

**Prerequisites:** Familiarity with V/L and Endgame concepts.

**Fees:** Fees for the course are pro-rated at \$495 per day, with the course breakout as follows:

Intro to BRL-CAD for AJEM Users	1 day	\$ 495
Intro to AJEM	2 days	\$ 990
AJEM Workshop for V/L Analysis	2 days	\$ 990
<b>TOTAL</b>	5 days	\$2475

**To Register:** Complete the attached registration form and mail or fax with a check or purchase order payable to SURVICE Engineering to:

SURVICE Engineering Company  
4695 Millennium Drive  
Belcamp, MD 21017-1505  
Phone: 410-273-7722  
FAX: 410-272-6763

# **Advanced Joint Effectiveness Model (AJEM) Training Course Outlines/Descriptions**

## **Intro to BRL-CAD for AJEM Users**

- BRL-CAD 7.x
- Developing a Database
- Database Upgrade
- Applications
- References/Resources

## **Intro to AJEM**

- Getting Started
  - AJEM User Interface
  - Vulnerability Analyses
  - Encounter Analyses
- ARL Taxonomy
- MUVES Vulnerability Computation
- Vulnerability Inputs
- Encounter Inputs
- Using FASTGEN – COVART Input
- AJEM – COVART Comparisons
- AJEM Tcl/Tk Scripting Language
- Sample Cases

## **AJEM Workshop for V/L Analysis**

This two-day course exercises common 'current practices' for AJEM use in conducting V/L analyses. Students will be presented with a baseline geometry and a criticality analysis, and will work in teams to develop an assessment in AJEM. Topics covered will vary based on student interest, but may include: criticality analysis development (DALs, fault trees, Pcd/hs); behind armor debris; blast modeling; ORCA personnel incapacitation; anti-air methodology; standard usage guidance and tools for JTCG/ME analysis; conversion utilities, pre- and post-processing tools, and available 'plug-ins'; 'pack' files for special armors; troubleshooting tips/advice; and additional sample cases for specific methodologies.

## AJEM COURSE REGISTRATION – 2010 COURSES

COURSE TITLE: \_\_\_\_\_

COURSE DATE(S): \_\_\_\_\_

COMPANY: \_\_\_\_\_

MAILING ADDRESS: \_\_\_\_\_

CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ ZIP: \_\_\_\_\_

### STUDENT INFORMATION

NAME	PHONE/EXT.	INTERNET E-MAIL ADDRESS	DATE OF SESSION	# PAID DAYS ATTENDING	FEE PER STUDENT
	( )				
	( )				
	( )				
	( )				
	( )				
	( )				
<b>TOTAL FEES</b>					

Terms: A check or purchase order is required at the time of registration, made payable to SURVICE Engineering.

Cancellation Policy: Due to limited class size it may be necessary to reschedule students to a mutually convenient date. Payment is non-refundable for failure to attend without notification prior to ten work days before the start of the course.

Confirmation: Your course registration will be confirmed after receipt of payment. Please contact us if you have not received confirmation within 10 working days following payment of course tuition.

Total Payment:

Paid by: \_\_\_Cash \_\_\_Check \_\_\_VISA \_\_\_MasterCard P.O. # \_\_\_\_\_ \$ \_\_\_\_\_

Account Number: \_\_\_\_\_ Expiration Date: \_\_\_\_/\_\_\_\_ (mm/yy)

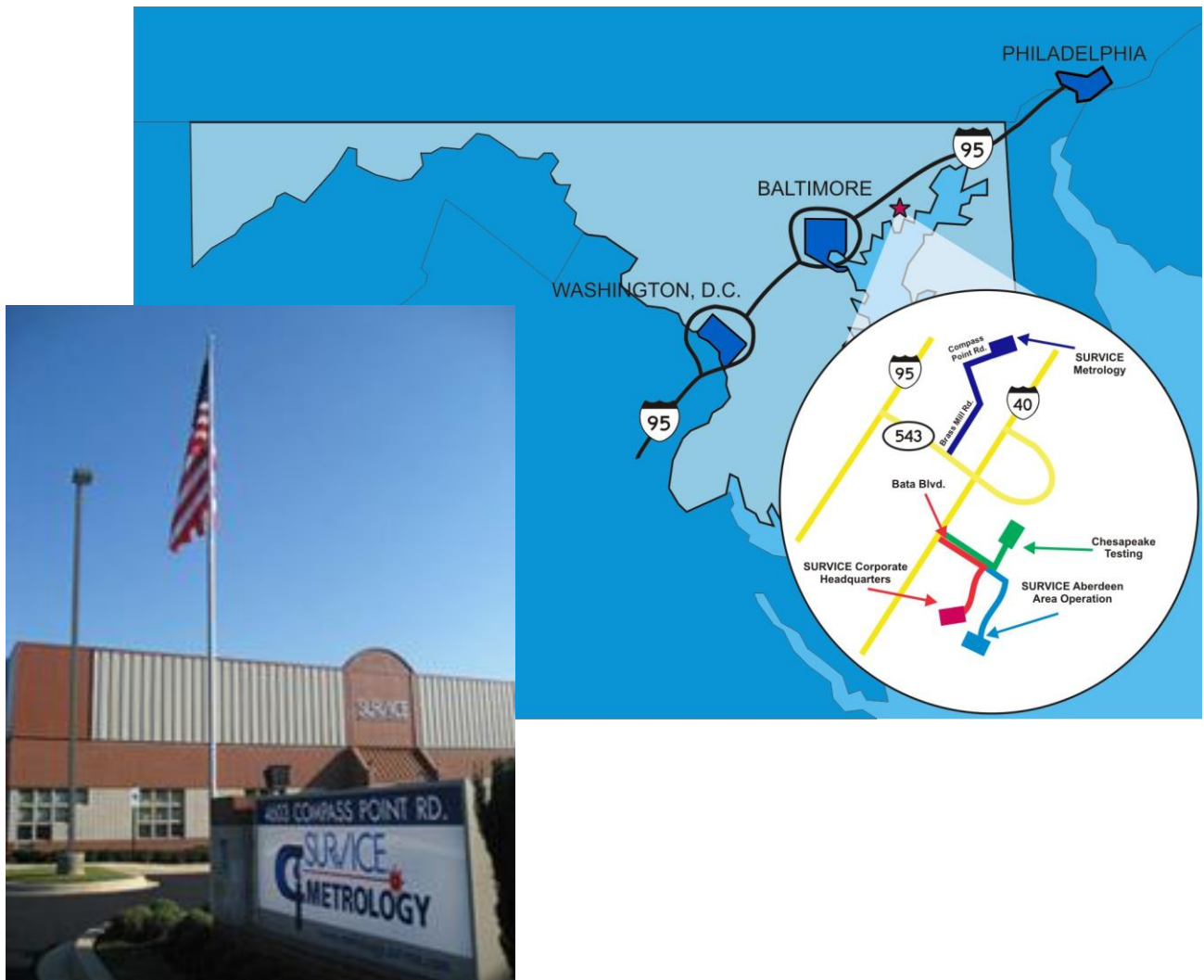
Print Name from Card: \_\_\_\_\_ CVV Code: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**Applied Technology Operation - SURVICE Metrology Facility**  
**4603 Compass Point Road, Belcamp, MD 21017**  
**410.297.2378**

**DIRECTIONS**

From I-95, take exit 80 to MD-543 South toward Riverside. Turn left at Md-7 North Philadelphia Road. Turn right at Brass Mill Road. Turn left at Compass Point Road.



## LOCAL MOTELS AND RATES

(\*\* closest to SURVICE ATO/Metrology Offices)

### **Wingate by Wyndham\*\***

1326 Policy Drive  
Belcamp, MD 21017  
410-272-2929, Fax: 410-272-1806  
1-800-228-1000  
Gov't./SURVICE Rate: \$75.00  
[www.the.wingateinns.com/aberdeeen13084](http://www.the.wingateinns.com/aberdeeen13084)

### **SpringHill Suites Marriott\*\***

1420 Handlir Drive  
Belcamp, MD 21017  
410-297-4970, Fax 410-297-4980  
1-877-933-3900  
Rate: \$114.00  
[www.springhillsuites.com](http://www.springhillsuites.com)

### **Country Inn & Suites by Carlson\*\***

1435 Handlir Drive  
Bel Air, MD 21015  
410-297-9444, Fax 410-297-8866  
1-800-596-2375  
Rate: \$97.99  
[www.countryinns.com](http://www.countryinns.com)

### **Baltimore/Edgewood Hampton Inn (BALEW)**

2112 Emmorton Park Road  
Edgewood, MD 21040  
410-670-6000, Fax 410-670-0000  
1-800-426-7866  
Gov't Rate: \$75.00  
[hamptoninn.hilton.com](http://hamptoninn.hilton.com)

### **Days Inn Edgewood**

2116 Emmorton Park Road  
Edgewood, MD 21040  
410-671-9990, Fax 410-671-7802  
1-800-329-7466  
Rate: \$60.00  
[www.daysinn.com](http://www.daysinn.com)

### **Best Western Invitation Inn**

1709 Edgewood Road  
Edgewood, MD 21040  
410-679-9700  
1-800-408-4748  
Gov't. Rate: \$69.95 - \$79.95  
[www.bestwesterninvitationinn.com](http://www.bestwesterninvitationinn.com)

### **Sleep Inn**

1807 Edgewood Road  
Edgewood, MD 21040  
410-679-4700, Fax 410-538-9926  
1-877-424-6423  
Corporate Rate: \$84.00 - \$89.00  
[www.sleepinn.com/hotel/MD621](http://www.sleepinn.com/hotel/MD621)

### **Extended Stay America**

1361 James Way  
Bel Air, MD 21015  
410-273-0194  
1-800-804-3724  
Rate: \$79.99 - \$85.99  
[www.extendedstay.com](http://www.extendedstay.com)

### **Clarion Hotel**

980 Hospitality Way  
Aberdeen, MD 21001  
410-273-6300, Fax 410-575-7195  
1-877-424-6423  
Corporate Rate: \$129.00  
[www.clarionhotel.com](http://www.clarionhotel.com)

### **Holiday Inn Chesapeake House**

1007 Beards Hill Road  
Aberdeen, MD 21001  
410-272-8100, Fax 410-272-1714  
1-800-423-0908  
Rate: \$84.00 - \$89.00  
[www.holiday-inn.com/aberdeeenmd](http://www.holiday-inn.com/aberdeeenmd)

### **Vandiver Inn & Kent/Murphy Guest Houses**

301 S. Union Avenue  
Havre de Grace, MD 21078  
410-939-5200, Fax 410-939-5202  
1-800-245-1655  
Rate: \$89.00  
[www.vandiverinn.com](http://www.vandiverinn.com)