

6/29/2017

# DOT&E Ground Vehicle Survivability and Force Protection Short Course

22 – 24 August 2017

TARDEC University, Warren, Mi

## Tuesday, 22 Aug 2017

Lectures are at Classified SECRET, NOFORN Level

		Instructor	Time
	<b>Course Check-in</b>		0730 – 0830
1	Welcome to the Short Course & Admin / WHY?	Prof. Christopher Adams (NPS)	0830 – 0845
2	Keynote	Mr. Tom Bagwell (PEO-GCS DPEO)	0845 – 0900
	<b>Break</b>		0900 – 0915
<b>An Introduction to the Fundamentals of Ground Vehicle Survivability and Force Protection</b>			
3	Preface to Ground Vehicle Survivability	Prof. Christopher Adams	0915 – 0930
4	Introduction to Ground Vehicle Survivability	Prof. Christopher Adams	0930 – 1000
5	Military Ground Vehicles: Their Missions, Capabilities, and Survivability	Prof. Christopher Adams	1000 – 1045
	<b>Break</b>		1045 – 1100
6	History & Evolution of Combat and Tactical Vehicle Survivability	COL (ret) Chris Cardine (SURVICE)	1100 – 1135
7	Force Protection and Recoverability	Dr. Lowell Tonnessen (IDA)	1135 – 1200
	<b>Lunch, GVS videos</b>		1200 – 1245
8	Live Fire Test and Evaluation/Joint Live Fire for Ground Vehicle Survivability & Occupant Protection	Dr. Sandra Ugrina (Deputy Director for LFT&E)	1245 – 1330
9	Integrated Survivability Assessment	Dr. Lowell Tonnessen (IDA)	1330 – 1400
	<b>Break</b>		1400 – 1415
10	Threat Weapons & Effects Overview / Threat Demos	Prof. Christopher Adams NGIC staff/TARDEC Staff	1415 – 1500
11	Damage Mechanisms and Damage Processes	COL (ret) Chris Cardine	1500 – 1530
12	Historical Perspective & Combat Data (OEF/OIF) <b>Lecture is Classified SECRET, NOFORN</b>	Mr. Jeff Morgan (NGIC)*	1530 – 1615
13	Problem Session and Q&A	Prof. Christopher Adams	1615 – 1630

## Wednesday, 23 Aug 2017

Lectures are at Classified SECRET, NOFORN Level

		Instructor	Time
	<b>Daily Check-in</b>		0730 – 0800
<b>Susceptibility &amp; Vulnerability</b>			
13	Welcome & Day One Review	Prof. Christopher Adams	0800 – 0810
14	Survivability Enhancement and Susceptibility Elements	Prof. Christopher Adams	0810 – 0845
15	Susceptibility Reduction Concepts and Applications	Prof. Christopher Adams	0845 – 0930
16	Active Protection Systems & other SR systems	Dr. Doug Templeton & COL (ret) Chris Cardine (SURVICE)	0930 – 1000
	<b>Break</b>		1000 – 1015
17	Vulnerability Reduction Concepts and Applications	Dr. Doug Templeton	1015 – 1045
18	Abrams Survivability Evolution	Mr. Ed Barshaw (USARMY PEO GCS) & COL (ret) Chris Cardine (SURVICE)	1045 – 1130

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Design for Survivability, Requirements & Assessment			
	<b>Lunch, Future Combat Systems (FCS)</b>		1130 – 1215
19	Requirements, Survivability, and KPPs	Dr. Mark Couch (IDA)	1215 – 1300
20	Vulnerability Reduction: Structures, V-Hulls, and Blast Deflection	Dr. Will Gardner (IDA)	1300 – 1345
	<b>Break</b>		1345 – 1400
21	Armor	Dr. Doug Templeton	1400 – 1445
	<b>Break</b>		1445 – 1500
22	Requirements Development, Technology Maturity, and Risk Management	Dr. Will Gardner (IDA)	1500 – 1600
23	Susceptibility Reduction and Active Protection Panel Discussion Problem Session and Q&A	Prof. Christopher Adams	1600 – 1630

**Thursday, 24 Aug 2017**

Lectures are at Classified SECRET, NOFORN Level		Instructor	Time
	<b>Daily Check-in</b>		0730 – 0800
24	Welcome & Day Two Review	Prof. Christopher Adams	0800 – 0805
25	Ground Vehicle Vulnerability Assessment (Part 1)	Dr. Will Gardner (IDA)	0810 – 0900
	<b>Break</b>		0900 – 0910
26	Ground Vehicle Vulnerability Assessment (Parts 2 & 3)	Dr. Will Gardner (IDA)	0910 – 1015
27	Occupant Protection Fundamentals	Ms. Risa Scheher (occupant protection team lead)	1015 – 1100
	<b>Break</b>		1100 – 1110
28	Occupant Protection Concepts & Features	Dr. Doug Templeton (SURVICE)	1110 – 1145
	<b>Lunch, GVS videos</b>		1145 – 1230
29	Ground Vehicle Recoverability	COL (ret) Chris Cardine (SURVICE)	1230 – 1300
30	Program Office		1300 – 1330
	<b>Break</b>		1330 – 1345
31	Program Office		1345 – 1430
32	Designing for Survivability	Dr. Doug Templeton, Chris Cardine (SURVICE)	1430 – 1500
	<b>Break</b>		1500 – 1515
33	Ground Vehicle Survivability Design Panel Discussion	Prof. Christopher Adams, COL (ret) Chris Cardine, Dr. Doug Templeton, Dr. Lowell Tonnessen, Dr. Will Gardner	1515 – 1545
34	Course Wrap Up	Prof. Christopher Adams	1545 – 1600