

FY 13 CALENDAR (OCTOBER 2012 - SEPTEMBER 2013)

ENGINEERING & SCIENCES AND ESDP	COST	COURSE DATES											
		OCT 12	NOV 12	DEC 12	JAN 13	FEB 13	MAR 13	APR 13	MAY 13	JUN 13	JUL 13	AUG 13	SEP 13
Airworthiness	None			12			13			12			11
Analytic Fundamentals	\$580											27-29	
Class Desk & APML Orientation	None			10-13					13-16				16-19
Data Analysis using Excel	\$675							29 Apr-02 May			29 Jul-01 Aug		
Data Analysis with MS Access	\$675									04-06			
ECPS for Engineers	None	23				19			14			27	
ESDP Fundamentals of Contracting & Classification MGMT for Tech Personnel	None	Please call (301)757-9103 to Request Brief											
Intellectual Property and Tech Transfer	None	16			15		12			04			10
Management Analysis, Intermediate	\$540												10-12
Management Analysis, Introduction	\$655							08-11					
Presenting Analysis Results	\$390									18-19			
Project Management, Advanced	\$825												23-25
Project Management, Basic	\$825								21-23				
Risk Management	None	24				20			15			28	
Systems Engineering Technical Review (SETR) Process	None	25				21			16			29	
Working Capital Fund Budget Process, Overview	\$125		27			12			21			27	

FY 13 CALENDAR (OCTOBER 2012 - SEPTEMBER 2013)

COMPETENCY SPECIFIC ENGINEERING & SCIENCES	COST	COURSE DATES											
		OCT 12	NOV 12	DEC 12	JAN 13	FEB 13	MAR 13	APR 13	MAY 13	JUN 13	JUL 13	AUG 13	SEP 13
Adaptive Array Radar Processing	None					11-14							
Antenna Engineering	None	01-05											
Basic RF Electronic Warfare	None					19-21							
Digital Radio Frequency Memory (DRFM) Technology	None					26-28							
Electronic Warfare (Basic RF Electronic Warfare Concepts)	None	16-18											
Far-Field Anechoic Chamber & Near Field Antenna Measurement Techniques	None		05-09										
Fundamentals of Radar Signal Processing	None	15-18											
Infrared/Visible Signature Suppression	None			03-06									
Introduction to Intelligence, Surveillance, Reconnaissance (ISR) Concepts, Systems and Test and Evaluation	None				14-17								
M & S of Antennas	None						12-15						
Military Laser Principles and Applications	None				10-14								
MIL STD 1553 Seminar	None	01-03											
MIL STD 1760	None		05-08										
Multi-Sensor Data Fusion	None						18-21						
Nano Technology	None								21-23				

FY 13 CALENDAR (OCTOBER 2012 - SEPTEMBER 2013)

COMPETENCY SPECIFIC ENGINEERING & SCIENCES	COST	COURSE DATES											
		OCT 12	NOV 12	DEC 12	JAN 13	FEB 13	MAR 13	APR 13	MAY 13	JUN 13	JUL 13	AUG 13	SEP 13
Phased Array Radar Systems	None			11-13									
Radar Cross-Section	None						04-07						
Transmit/Receive Modules for Phase Array Radar	None							09-11					

COURSE TITLE:	<i>AIRWORTHINESS</i>
VENDOR:	Airworthiness/Flight Clearance AIR – 4.0P Patuxent River MD 20670
LOCATION:	WYLE LABS 22300 Exploration Drive, Exploration III Conf Ctr 1-A/B Lexington Park MD
DATE:	12 December 12 13 March 13 12 June 13 11 September 13
TIME:	8:00 a.m. - 3:30 p.m.
DESCRIPTION:	This course provides training on the Department of the Navy's airworthiness/flight clearance process as executed by COMNAVAIRSYSCOM. The basis of airworthiness is founded in Material Management, Maintenance, Configuration Management, Training (pilot and maintainer), Technical Risk Assessments, Flight Test Peculiar items such as Continuation Criteria, Envelope Expansion Plans, etc., all rooted in an Independent Engineering Review leading to a flight clearance release. Included are discussions and "how to" on Interim Flight Clearances, NATOPS and NATIP Permanent Flight Clearances, Technical Area Expert Certification, Commercial Derivatives, FAA, U.S. Army and Air Force Airworthiness processes and International/FMS relationships to DoN.
OBJECTIVE:	At the completion of this course, participants should be able to: <ul style="list-style-type: none"> ❖ Understand DoN/CNO/NAVAIR policy and procedures pertaining to Airworthiness. Especially the "Bubble Chart" which depicts the relationships between key airworthiness tenets such as Maintenance and Configuration Management. ❖ Know what flight clearances are, when you need one, how to get one, and how to execute the process efficiently. ❖ Know the content of the NATIP and NATOPS and how they relate to interim flight clearances. ❖ Be familiar with the NATIP and NATOPS updates and change processes. ❖ Know how to interface with other agencies regarding airworthiness. ❖ Know how to become certified to support the Airworthiness Process. ❖ Understand the relationships between Civil and Public aircraft, the FAA and the DoD. ❖ Understand the meaning and relationships of airworthiness, safety of flight and hazard risk analyses.
AUDIENCE:	System Engineers, IPT Leads, Class Desks, Facilitators, Technical Area Experts, Flight Test Engineers and members of the NAVAIR RDT&E Community.
PREREQUISITES:	None
NOMINATIONS:	PAX RIVER NAVAIR TEAM employees should submit a planned training request through the Navy ERP Portal via: https://ep.erp.navy.mil . Select NAVAIR Course Catalog then Engineering and Science. NOTE: Contractor personnel may attend on a space-available basis. To apply, fax the Course Coordinator (301-342-4523) a completed Contractor Nomination Form which can be found on the Total Force Strategy and Management Department website at: http://www.navair.navy.mil/TFSMD/training/index.htm
COST:	None
POC:	(301) 757-9103

COURSE TITLE:	<i>ANALYTICS FUNDAMENTALS</i>
VENDOR:	Kais E Systems, Inc. 1840 E. Valencia Building 8, Suite 209 Tucson, AZ 85706
LOCATION:	Employee Development Center, Building #2189
DATE: 27-29 August 13	NOMINATION DEADLINE: 27 July 13
TIME:	8:00 a.m. - 3:30 p.m.
DESCRIPTION:	<p>Analytics is the process of obtaining a realistic decision based on existing data. These decisions drive the systems, structures, and processes of organizations. Analytic Fundamentals provides the knowledge needed to perform key analysis within the organization. Using a core analysis framework as well as participation in this interactive workshop, you will improve your analytical competencies and basic Excel skills.</p> <p>Hands-on exercises provide you with practical experience using the analytics model and Excel 2007. Exercises include:</p> <ul style="list-style-type: none"> ❖ Creating a Milestone Chart and Gantt Chart ❖ Preparing an Interview Guide and Questionnaire ❖ Designing spreadsheets for data entry ❖ Analyzing data using descriptive statistics ❖ Summarizing data into charts, graphs, and tables ❖ Providing a team briefing of the results
OBJECTIVES:	<p>Upon completion of the course, students will have learned how to:</p> <ul style="list-style-type: none"> ❖ Write a problem statement ❖ Create a study plan ❖ Identify the most effective data collection strategy ❖ Write interview questions and survey questions ❖ Develop Excel spreadsheets of data collected ❖ Analyze data using descriptive statistics ❖ Summarize data into a presentation template ❖ Brief the results of the analysis
AUDIENCE:	Analysts and business and technical professionals using operational data to drive decisions within the organization, or anyone interested in improving their analytic competencies and skills will benefit in this course. The strategic thinking and operational results using Excel basics provide immediate skills for the workplace. Experience with Excel basics is assumed.
PREREQUISITE:	Must have an NMCI account to attend
NOMINATIONS:	<p>PAX RIVER NAVAIR TEAM employees should submit a planned training request through the Navy ERP Portal via: https://ep.erp.navy.mil. Select NAVAIR Course Catalog then Business Management Analysis.</p> <p>NOTE: Contractor personnel may attend on a space-available basis. To apply, fax the Course Coordinator (301-342-4523) a completed Contractor Nomination Form which can be found on the Total Force Strategy and Management Department website at: http://www.navair.navy.mil/TFMSMD/training/index.htm</p>
LENGTH:	3 Days
COST:	\$580
METHOD OF PAYMENT:	Vendor accepts GCPC (Governmentwide Commercial Purchase Card).
POC:	(301) 757-4123

COURSE TITLE:	<i>CLASS DESK – APML ORIENTATION</i>
VENDOR:	AIR 4.1 Naval Air Systems Command Patuxent River MD
LOCATION:	Employee Development Center, Building #2189
DATE:	10-13 December 12 13-16 May 13 16-19 September 13
TIME:	8:00 a.m. - 4:00 p.m.
DESCRIPTION:	This four-day course provides a description of the roles and responsibilities for personnel assigned as Assistant Program Manager for Systems Engineering (Class Desk) or Assistant Program Manager for Logistics (APML) within a competency aligned organization, and the role of systems engineering and logistics in acquisition. Additional modules covering associated processes are presented including team capabilities, new acquisition model, systems engineering, logistics support, technical reviews, reliability and maintainability, engineering investigations and hazard material reports, grounding bulletins and red stripes, technical directives and bulletins, system safety & risk assessment, business and finance, software, design interface/maintenance planning, configuration management, initial operational capability supportability review (IOCSR), cost analysis, total ownership cost, earned value management, airworthiness, and test and evaluation.
OBJECTIVE:	To provide basic skills and knowledge to enhance the performance of personnel newly assigned as assistant program manager for systems engineering (Class Desk) or assistant program manager for logistics.
AUDIENCE:	Personnel newly assigned as class desks or APML's and supporting government and contract personnel. Other employees are welcome subject to space availability.
PREREQUISITES:	None
NOMINATIONS:	PAX RIVER NAVAIR TEAM employees should submit a planned training request through the Navy ERP Portal via: https://ep.erp.navy.mil . Select NAVAIR Course Catalog then Engineering and Science. NOTE: Contractor personnel may attend on a space-available basis. To apply, fax the Course Coordinator (301-342-4523) a completed Contractor Nomination Form which can be found on the Total Force Strategy and Management Department website at: http://www.navair.navy.mil/TFSMD/training/index.htm
COST:	None
POC:	(301) 757-9103

COURSE TITLE:	<i>DATA ANALYSIS WITH MS EXCEL</i>
VENDOR:	Kais E Systems, Inc. 1840 E. Valencia Building 8, Suite 209 Tucson, AZ 85706
LOCATION:	Employee Development Center, Building #2189
DATE: 29 April-02 May 13 29 July-01 August 13	NOMINATION DEADLINE: 29 March 13 29 June 13
TIME:	8:00 a.m. – 3:30 p.m.
DESCRIPTION:	This course allows the participant to combine data, mathematical formulas, text and graphics together in a single report or workbook. Participants learn statistics by analyzing data from real world problems-from surveys of hotel prices to physiological studies on NASA astronauts. Participants use both the text and the accompanying web-based software to practice new skills using Microsoft Excel updated for Office 2007. Course topics include single variable graphs and statistics, scatterplots, probability distributions, tables, correlation and simple regression, multiple regression, time series, and statistical quality control.
OBJECTIVE:	Upon completion of the course, the student will be able to: <ul style="list-style-type: none"> ❖ Work with data in Excel 2007. ❖ Work with charts in Excel. ❖ Describe Data. ❖ Create Pivot Tables. ❖ Perform Regression Analysis. ❖ Correlation. ❖ Perform Multiple Regression. ❖ Analyze data over time. ❖ Develop Quality Control Charts.
AUDIENCE:	Students should have a basic understanding of Excel.
PREREQUISITE:	Must have an NMCI account to attend
NOMINATIONS:	PAX RIVER NAVAIR TEAM employees should submit a planned training request through the Navy ERP Portal via: https://ep.erp.navy.mil . Select NAVAIR Course Catalog then Business Management Analysis. NOTE: Contractor personnel may attend on a space-available basis. To apply, fax the Course Coordinator (301-342-4523) a completed Contractor Nomination Form which can be found on the Total Force Strategy and Management Department website at: http://www.navair.navy.mil/TFMSMD/training/indextraining.html
LENGTH:	4 Days
CPE:	32 CPEs
COST:	\$675
METHOD OF PAYMENT:	Vendor accepts GCPC (Government-wide Commercial Purchase Card).
POC:	(301) 757-4123

COURSE TITLE:	<i>DATA ANALYSIS WITH MS ACCESS</i>
VENDOR:	Kais E Systems, Inc. 1840 E. Valencia Building 8, Suite 209 Tucson, AZ 85706
LOCATION:	Employee Development Center, Building #2189
DATE: 04-06 June 13	NOMINATION DEADLINE: 04 May 13
TIME:	8:00 a.m. – 3:30 p.m.
DESCRIPTION:	This course allows the participant to gain a true understanding of data and the information it contains. Access queries are covered in detail, both in terms of the mechanics of their design, and how they can be used for typical data analysis tasks. The concept of data analysis to encompass business intelligence (BI) topics, including valuable material on how to use Access and Excel pivot tables is included. Discussions on features include "See the SQL" sidebars that allow interested readers to learn SQL as they are learning Access and "Focus on Analysis" sidebars that provide details on a number of useful quantitative topics.
OBJECTIVE:	Upon completion of the course, the student will use: <ul style="list-style-type: none"> ❖ Select queries ❖ Joins and relationships ❖ Relational Database design ❖ Expressions and functions ❖ Selection criteria ❖ Sub-queries and set logic ❖ Action queries ❖ Crosstab queries and pivot tables ❖ Dimensional modeling ❖ Data Warehousing
AUDIENCE:	Students should have a basic understanding of Access
PREREQUISITE:	Must have an NMCI account to attend
NOMINATIONS:	PAX RIVER NAVAIR TEAM employees should submit a planned training request through the Navy ERP Portal via: https://ep.erp.navy.mil . Select NAVAIR Course Catalog then Business Management Analysis. NOTE: Contractor personnel may attend on a space-available basis. To apply, fax the Course Coordinator (301-342-4523) a completed Contractor Nomination Form which can be found on the Total Force Strategy and Management Department website at: http://www.navair.navy.mil/TFMSMD/training/indextraining.html
LENGTH:	3 Days
CPE:	24 CPEs
COST:	\$675
METHOD OF PAYMENT:	Vendor accepts GCPC (Government-wide Commercial Purchase Card).
POC:	(301) 757-4123

COURSE TITLE:	<i>ECPS FOR ENGINEERS</i>
VENDOR:	NAVAIR 4.1G Naval Air Systems Command Patuxent River MD 20670
LOCATION:	Employee Development Center, Building #2189
DATE:	23 November 12 19 February 13 14 May 13 27 August 13
TIME:	8:00 a.m. - 4:00 p.m.
DESCRIPTION:	A high level overview of Configuration Management (CM) and the Engineering Change Proposal (ECP) Process.
OBJECTIVE:	Students will learn how ECPs fit within the DoD acquisition policy framework. The NAVAIR policy for ECPs and the classes and types of ECPs as well as the process for requesting, approving/disapproving and implementing ECPs.
AUDIENCE:	The Systems Engineering Community
PREREQUISITES:	None
NOMINATIONS:	PAX RIVER NAVAIR TEAM employees should submit a planned training request through the Navy ERP Portal via: https://ep.erp.navy.mil . Select NAVAIR Course Catalog then Engineering and Science. NOTE: Contractor personnel may attend on a space-available basis. To apply, fax the Course Coordinator (301-342-4523) a completed Contractor Nomination Form which can be found on the Total Force Strategy and Management Department website at: http://www.navair.navy.mil/TFSMD/training/index.htm
COST:	None
POC:	(301) 757-9103

COURSE TITLE:	<i>ESDP FUNDAMENTALS OF CONTRACTING AND CLASSIFICATION MANAGEMENT FOR TECHNICAL PERSONNEL</i>
VENDOR:	4.0 & 5.0 NAVAIR Patuxent River, MD 20670
DATE:	REQUEST BRIEF FROM POC
DESCRIPTION:	This half day course is designed for new project engineer team members who may use the acquisition process in the performance of their job. It also covers the responsibilities of the professional to ensure protection of classified material. Topics covered include: an overview of the acquisition process and various acquisition methods available, public policies which impact the acquisition process, the application of classification management principles, and recognition of security violations/compromises.
OBJECTIVE:	At the conclusion of this course, participants should be able to: <ul style="list-style-type: none"> ❖ Describe the acquisition process including time constraints, paperwork required, approval levels and procurement authority. ❖ Differentiate between acquisition methods. ❖ Define proper contractor/civil service relations. ❖ Possess a working knowledge of their security duties and responsibilities. ❖ Be familiar with OPNAVINST 5510.1 and NAVAIRWARCENACDIV 55101.1.
AUDIENCE:	This course is designed for entry-level scientists and engineers. Other employees are welcome to attend based on space availability.
PREREQUISITES:	None
COST:	None
POC:	(301) 757-9103

COURSE TITLE:	<i>INTELLECTUAL PROPERTY AND TECHNOLOGY TRANSFER</i>
VENDOR:	Office of Counsel & Office of Research and Tech. Applications Naval Air Warfare Center Aircraft Division Patuxent River MD
LOCATION:	Employee Development Center, Building #2189
DATE:	16 October 12 15 January 13 12 March 13 04 June 13 10 September 13
TIME:	8:00 a.m. - 4:00 p.m.
DESCRIPTION:	Students will develop an understanding of technology transfer, the process in which technology or knowledge developed in one place or for one purpose is applied and exploited in another place for some other purpose. Within DoD, this involves transfers occurring between federal laboratories and any nonfederal organization, including private industry, academia, and state and local governments, but can occur between federal agencies. A major long-term goal of the federal government is sustained economic growth: one way to achieve this is development and commercialization of new technologies. Federal labs try to foster and maintain advanced technical capabilities by partnering with private industry and academia. Students will learn about the specific mechanisms used for technology transfer, the legal issues associated with each, how an employee's innovation may be an invention that could be patented, and how and why intellectual property must be protected. They will also become acquainted with the NAWCAD Patuxent River Office of Research and Technology Applications (ORTA) and its role in implementing technology transfer at the command, and with the Office of Counsel and its responsibilities in protecting intellectual property.
OBJECTIVE:	At the completion of the course, participants will understand: <ul style="list-style-type: none"> ❖ Inventions and patents. ❖ Methods to accomplish technology transfer ❖ Patent Licensing ❖ Cooperative research and development agreement ❖ Commercial service agreement ❖ Memorandum of Agreement ❖ Command processes and offices involved in technology transfer ❖ Major technology transfer legislation
AUDIENCE:	RDT&E scientists and engineers
PREREQUISITES:	None
NOMINATIONS:	PAX RIVER NAVAIR TEAM employees should submit a planned training request through the Navy ERP Portal via: https://ep.erp.navy.mil . Select NAVAIR Course Catalog then Engineering and Science. NOTE: Contractor personnel may attend on a space-available basis. To apply, fax the Course Coordinator (301-342-4523) a completed Contractor Nomination Form which can be found on the Total Force Strategy and Management Department website at: http://www.navair.navy.mil/TFSMD/training/index.htm
COST:	None
POC:	(301) 757-9103

COURSE TITLE:	<i>MANAGEMENT ANALYSIS, INTERMEDIATE</i>
VENDOR:	Kais E Systems, Inc. 1840 E. Valencia Building 8, Suite 209 Tucson, AZ 85706
LOCATION:	Employee Development Center, Building #2189
DATE: 10-12 September 13	NOMINATION DEADLINE: 10 August 13
TIME:	8:00 a.m.-3:30 p.m.
DESCRIPTION:	Identifying organization's issues, building a plan to efficiently and effectively study them, and collecting the data is only the beginning of the analysis process. What tools and techniques should you apply to develop sound solutions to organization problems? Forecasting techniques, decision trees, functional work systems, facility layout concepts and other techniques lead you to a better understanding of the organization's strategy and the role the analyst plays in assisting in the development of the plans of the organization.
OBJECTIVE:	Upon completion of the course, you will be able to: <ul style="list-style-type: none"> ❖ Construct decision trees ❖ Develop selection methods ❖ Forecast using moving averages, exponential smoothing, and trend analysis ❖ Make correlations between variables ❖ Develop alternative solutions ❖ Identify how work should flow ❖ Design facility layout to maximize efficiency
AUDIENCE:	This course is designed for management analysts, managers, and other professionals.
NOMINATIONS:	PAX RIVER NAVAIR TEAM employees should submit a planned training request through the Navy ERP Portal via: https://ep.erp.navy.mil . Select NAVAIR Course Catalog then Business Management Analysis. NOTE: Contractor personnel may attend on a space-available basis. To apply, fax the Course Coordinator (301-342-4523) a completed Contractor Nomination Form which can be found on the Total Force Strategy and Management Department website at: http://www.navair.navy.mil/TFSMD/training/indextraining.html
LENGTH:	3 Days
CPE:	32 CPEs
COST:	\$540
METHOD OF PAYMENT:	Vendor accepts GCPC (Government-wide Commercial Purchase Card).
POC:	(301) 757-4123

COURSE TITLE:	<i>MANAGEMENT ANALYSIS, INTRODUCTION</i>
VENDOR:	Kais E Systems, Inc. 1840 E. Valencia Building 8, Suite 209 Tucson, AZ 85706
LOCATION:	Employee Development Center, Building #2189
DATE: 08-11 April 13	NOMINATION DEADLINE: 08 March 13
TIME:	8:00 a.m.-3:30 p.m.
DESCRIPTION:	Credible analysis is the foundation for decision-making in today's organizations. Defining the organization's objectives for analysis and developing the basics of designing and conducting the study are important for valid and reliable findings. We focus on identifying the problem and the research questions necessary for the analysis as the beginning of the analytic process. Developing an effective study proposal frames our planning phase of the analysis. During this hands- on training, we work through an analysis project to provide the framework for your at-work requirements of analyzing organizational issues. Engage in critical thinking; collaborate and share through teamwork activities; innovate with creative solutions, and present your study findings with confidence and clarity.
OBJECTIVE:	Upon completion of the course, you will be able to: <ul style="list-style-type: none"> ❖ Identify organizational problems ❖ Formulate research questions ❖ Develop a study proposal with milestones and timelines ❖ Collect data to answer research questions ❖ Develop alternative solutions ❖ Define criteria for solutions selection ❖ Present findings and solutions
AUDIENCE:	This course is designed for management analysts, managers, and other professionals.
NOMINATIONS:	PAX RIVER NAVAIR TEAM employees should submit a planned training request through the Navy ERP Portal via: https://ep.erp.navy.mil . Select NAVAIR Course Catalog then Business Management Analysis. NOTE: Contractor personnel may attend on a space-available basis. To apply, fax the Course Coordinator (301-342-4523) a completed Contractor Nomination Form which can be found on the Total Force Strategy and Management Department website at: http://www.navair.navy.mil/TFSMD/training/indextraining.html
LENGTH:	4 Days
CPE:	32 CPEs
COST:	\$655
METHOD OF PAYMENT:	Vendor accepts GCPC (Government-wide Commercial Purchase Card).
POC:	(301) 757-4123

COURSE TITLE:	<i>PRESENTING ANALYSIS RESULTS</i>
VENDOR:	Kais E Systems, Inc. 1840 E. Valencia Building 8, Suite 209 Tucson, AZ 85706
LOCATION:	Employee Development Center, Building #2189
DATE: 18-19 June 13	NOMINATION DEADLINE: 18 May 13
TIME:	8:00 a.m. – 3:30 p.m.
DESCRIPTION:	<p>The ability to convey facts and information in a clear, concise and engaging manner is a crucial part of delivering the analysis results. Presenting Analysis Results is designed to provide the knowledge of presentation skills and the techniques to use Excel and PowerPoint to create a technical presentation. Whether you present to the senior leadership of your organization or convey information at a staff meeting, this course provides you with the skills to convey your message while focusing on your audience needs and presentation objectives.</p> <p>Hands-on exercises provide you with practical experience using Excel 2007 and PowerPoint 2007. Exercises include:</p> <ul style="list-style-type: none"> ❖ Summarizing large sets of data into charts, graphs, and tables ❖ Creating Line, Bar, Column, and Pie charts ❖ Developing Radar charts and Bubble charts ❖ Writing descriptive TAG lines ❖ Making it meaningful; telling the story
OBJECTIVES:	<p>Upon completion of the course, students will have learned how to:</p> <ul style="list-style-type: none"> ❖ Set up data for charting ❖ Select the appropriate chart for the data presented ❖ Create a chart, graph, or table ❖ Customize the chart type ❖ Display three variables with a Bubble Chart ❖ Use SmartArt, Shapes, WordArt, and Text Boxes to tell the story
AUDIENCE:	Anyone who needs to develop or improve their charting competency and their presentation skills to confidently deliver impactful presentations using charts, graphs, and tables will benefit from Presenting Analysis Results. Some previous experience in Excel and PowerPoint is helpful.
PREREQUISITE:	Must have an NMCI account to attend
NOMINATIONS:	<p>PAX RIVER NAVAIR TEAM employees should submit a planned training request through the Navy ERP Portal via: https://ep.erp.navy.mil. Select NAVAIR Course Catalog then Business Management Analysis.</p> <p>NOTE: Contractor personnel may attend on a space-available basis. To apply, fax the Course Coordinator (301-342-4523) a completed Contractor Nomination Form which can be found on the Total Force Strategy and Management Department website at: http://www.navair.navy.mil/TFSMD/training/indextraining.html</p>
LENGTH:	2 Days
COST:	\$390
METHOD OF PAYMENT:	Vendor accepts GCPC (Government-wide Commercial Purchase Card).
POC:	(301) 757-4123

COURSE TITLE:	<i>PROJECT MANAGEMENT, ADVANCED</i>
VENDOR:	Stanley E. Portny & Associates 20 Helene Drive Randolph, NJ 07869
LOCATION:	Employee Development Center, Building #2189
DATE: 23-25 September 13	NOMINATION DEADLINE: 23 August 13
TIME:	8:00 a.m. - 3:30 p.m.
DESCRIPTION:	<p>Stan Portny, author of the acclaimed Project Management For Dummies, introduces you to advanced skills and techniques for effective project planning, organizing and control. Topics include:</p> <ul style="list-style-type: none"> ❖ Keys for successful matrix management ❖ Conflict management ❖ Difference between management and leadership ❖ Keys to successful interpersonal relations ❖ Techniques to facilitate effective communication ❖ How to develop and use power and influence ❖ Overview of the elements of a high performance project team ❖ How to create and sustain motivation and enthusiasm ❖ Benefit cost analysis as a decision support tool ❖ How to develop the project budget ❖ Project risk management ❖ Project management information systems: schedule, labor and funds ❖ Earned Value Analysis and progress reporting ❖ The Post Project Evaluation
AUDIENCE:	Managers and team members of small, medium and large projects, as well as others who support projects.
NOMINATIONS:	<p>PAX RIVER NAVAIR TEAM employees should submit a planned training request through the Navy ERP Portal via: https://ep.erp.navy.mil. Select NAVAIR Course Catalog then Business Management Analysis.</p> <p>NOTE: Contractor personnel may attend on a space-available basis. To apply, fax the Course Coordinator (301-342-4523) a completed Contractor Nomination Form which can be found on the Total Force Strategy and Management Department website at: http://www.navair.navy.mil/TFSMD/training/indextraining.html</p>
LENGTH:	3 Days
COST:	\$825
METHOD OF PAYMENT:	Vendor accepts GCPC (Governmentwide Commercial Purchase Card).
POC:	(301) 757-4123

COURSE TITLE:	<i>PROJECT MANAGEMENT, BASIC</i>
VENDOR:	Stanley E. Portny & Associates 20 Helene Drive Randolph, NJ 07869
LOCATION:	Employee Development Center, Building #2189
DATES: 21-23 May 13	NOMINATION DEADLINE: 21 April 13
TIME:	8:00 a.m. - 3:30 p.m.
DESCRIPTION:	<p>Stan Portny, author of the acclaimed Project Management For Dummies, introduces you to key techniques and approaches for effective project planning, organizing and control. Topics include:</p> <ul style="list-style-type: none"> ❖ Defining project purpose, desired outcomes, constraints and assumptions (the Statement of Work) ❖ Determining key project participants (the Audience List) ❖ Identifying project activities (the Work Breakdown Structure) ❖ Specifying project roles and responsibilities (the Linear Responsibility Chart) ❖ Developing and displaying a realistic and achievable project schedule (the Network Diagram, Key Events and Activities Lists and Gantt Chart) ❖ Estimating required personnel resources (the Skills Roster, Human Resources Matrix, Person Loading Chart and Person Loading Graph) ❖ Controlling project schedule performance and resource expenditures ❖ How to hold people accountable over whom you have no direct authority ❖ Keys for creating and keeping a motivated project team
AUDIENCE:	Managers and team members of small, medium and large projects, as well as others who support projects.
NOMINATIONS:	<p>PAX RIVER NAVAIR TEAM employees should submit a planned training request through the Navy ERP Portal via: https://ep.erp.navy.mil. Select NAVAIR Course Catalog then Business Management Analysis.</p> <p>NOTE: Contractor personnel may attend on a space-available basis. To apply, fax the Course Coordinator (301-342-4523) a completed Contractor Nomination Form which can be found on the Total Force Strategy and Management Department website at: http://www.navair.navy.mil/TFSMD/training/indextraining.html</p>
LENGTH:	3 Days
COST:	\$825
METHOD OF PAYMENT:	Vendor accepts GCPC (Government-wide Commercial Purchase Card).
POC:	(301) 757-4123

COURSE TITLE:	<i>RISK MANAGEMENT</i>
VENDOR:	NAVAIR 4.0
LOCATION:	Employee Development Center, Building #2189
DATE:	24 October 12 20 February 13 15 May 13 28 August 13
TIME:	8:00 a.m. - 4:00 p.m.
DESCRIPTION:	At the completion of this one day course, a student will know the fundamentals of the Naval SYSCOMs policy for risk management, understand the risk management process steps, be able to define and identify risks, be able to prioritize risks and develop effective mitigation strategies and lastly understand the role of the NAVAIR and Aviation PEO organizations in conducting a Risk Management Program.
AUDIENCE:	Competencies 4.0; 6.0; 5.0; PEO (1.0)
PREREQUISITES:	None
NOMINATIONS:	PAX RIVER NAVAIR TEAM employees should submit a planned training request through the Navy ERP Portal via: https://ep.erp.navy.mil . Select NAVAIR Course Catalog then Engineering and Science. NOTE: Contractor personnel may attend on a space-available basis. To apply, fax the Course Coordinator (301-342-4523) a completed Contractor Nomination Form which can be found on the Total Force Strategy and Management Department website at: http://www.navair.navy.mil/TFSMD/training/index.htm
COST:	None
POC:	(301) 757-9103

COURSE TITLE:	<i>SYSTEMS ENGINEERING TECHNICAL REVIEW (SETR) PROCESS</i>
VENDOR:	NAVAIR 4.1g Naval Air Systems Command Patuxent River MD 20670
LOCATION:	Employee Development Center, Building #2189
DATE:	25 October 12 21 February 13 16 May 13 29 August 13
TIME:	8:00 a.m. - 4:00 p.m.
DESCRIPTION:	Using the SETR process in accordance with NAVAIRINST 4355.19B.
OBJECTIVE:	Students will learn how to implement the Systems Engineering Technical Review Process, and use the execution modules and risk assessment checklists that it contains.
AUDIENCE:	The Systems Engineering Community
PREREQUISITES:	<i>It is recommended for students to have taken the Risk Management course prior to the SETR Course, if possible.</i>
NOMINATIONS:	PAX RIVER NAVAIR TEAM employees should submit a planned training request through the Navy ERP Portal via: https://ep.erp.navy.mil . Select NAVAIR Course Catalog then Engineering and Science. NOTE: Contractor personnel may attend on a space-available basis. To apply, fax the Course Coordinator (301-342-4523) a completed Contractor Nomination Form which can be found on the Total Force Strategy and Management Department website at: http://www.navair.navy.mil/TFSMD/training/index.htm
COST:	None
POC:	(301) 757-9103

COURSE TITLE	<i>WORKING CAPITAL FUND BUDGET PROCESS, OVERVIEW</i>
VENDOR:	The Siena Group LLC P.O. Box 355 Avenue, MD 20609
LOCATION:	Employee Development Center, Building # 2189
DATE: 27 November 12 12 February 13 21 May 13 27 August 13	NOMINATION DEADLINE: 27 October 12 12 January 13 21 April 13 27 July 13
TIME:	8:00 a.m.-12:00 p.m.
DESCRIPTION:	The A-11 budget process course is designed to familiarize participants with the Working Capital Fund concept and terms. This is an overview course and does not provide the participant with a detailed understanding of Navy Working Capital Fund.
OBJECTIVE:	Upon completion of this course, attendees should be able to: <ul style="list-style-type: none"> ❖ Understand the Navy Working Capital Fund concept. ❖ Understand the terms associated with the Navy Working Capital fund. ❖ Understand the subsidiary budgets associated with the Navy Working Capital Fund. ❖ Understand how billing rates are established.
AUDIENCE:	Technical and administrative personnel looking to understand the basics of the Navy Working Capital Fund concept.
LENGTH:	½ Day
NOMINATIONS:	PAX RIVER NAVAIR TEAM employees should submit a planned training request through the Navy ERP Portal via: https://ep.erp.navy.mil . Select NAVAIR Course Catalog then Budget & Financial. (It is <i>listed as Working Capital Fund Bdgt Process Overview</i>) NOTE: Contractor personnel may attend on a space-available basis. To apply, fax the Course Coordinator (301-342-4523) a completed Contractor Nomination Form which can be found on the Total Force Strategy and Management Department website at: http://www.navair.navy.mil/TFSMD/training/indextraining.html
COST:	\$125
METHOD OF PAYMENT:	Vendor accepts GCPC (Government-wide Commercial Purchase Card).
POC:	(301)757-4123

COURSE TITLE:	<i>ADAPTIVE ARRAY RADAR PROCESSING</i>
VENDOR:	Georgia Tech Professional Education P.O. Box 93686 Atlanta, GA 30377-0686
DATE:	11-14 February 13
LOCATION:	Employee Development Center, Building # 2189
DESCRIPTION:	Study in-depth adaptive signal processing algorithms and digital beamforming architectures that can be applied to any type of sensor array, with emphasis on radar applications. Explore adaptive jammer cancellation techniques starting with the Wiener filter. Examine angle-of-arrival estimation with monopulse and super-resolution techniques. Delve into hardware implementation issues and the effects of array errors on performance
OBJECTIVE:	<ul style="list-style-type: none"> ❖ Design digital beamforming architectures ❖ Develop and evaluate adaptive algorithms ❖ Implement adaptive monopulse ❖ Implement high resolution angle estimation algorithms ❖ Identify the impact of hardware errors on algorithm performance ❖ Apply space-time adaptive processing for airborne radar applications
AUDIENCE:	Scientists, Engineer and Managers.
PREREQUISITES:	A basic familiarity with radar and signal analysis is helpful, but not required, since introductions to both areas are included in the course
COST:	None
REGISTRATION:	COMPETENCY SPECIFIC
POC:	(301)757-9103

COURSE TITLE:	<i>ANTENNA ENGINEERING</i>
VENDOR:	Georgia Tech Professional Education P.O. Box 93686 Atlanta, GA 30377-0686
DATE:	01-05 October 12
LOCATION:	Employee Development Center, Building # 2189
DESCRIPTION:	Understand the fundamental properties, operations, utilizations, and applications of antennas. Focus on intuitive physical explanations and laboratory demonstrations. When equations are used, they are not derived. Instead, the significance of each will be explained; all terms will be clearly defined; and examples will be given to illustrate how they are used.
OBJECTIVE:	<ul style="list-style-type: none"> ❖ Gain a working knowledge of what antennas do ❖ Learn to construct a basic antenna ❖ Examine how antennas work ❖ Master measuring antenna patterns ❖ Know when to use what type of antennas ❖ Understand how the environment impacts antenna performance ❖ Learn what to consider when choosing antennas for a specific application ❖ Learn the mathematical and physics principles needed for antenna courses ❖ Discover how to use computer simulation to analyze various types of antennas
AUDIENCE:	Engineers, Scientists, Engineering managers and Practicing antenna technicians.
COST:	None
REGISTRATION:	COMPETENCY SPECIFIC
POC:	(301)757-9103

COURSE TITLE:	<i>BASIC RF ELECTRONIC WARFARE</i>
VENDOR:	Georgia Tech Professional Education P.O. Box 93686 Atlanta, GA 30377-0686
DATE:	19-21 February 13
LOCATION:	Employee Development Center, Building # 2189
DESCRIPTION:	Understand principles of operation of radar-controlled weapon systems and electronic warfare systems designed to counter them, as well as the test & evaluation of these systems. Explore several types of weapon systems in medium-level detail. First master the basic of electromagnetic waves and radar cross section. Then learn the principles of operation for search and tracking radar systems, ratio frequency electronic countermeasures systems, and radio frequency electronic support measures. Explore the implications of data links and networks on the implementation of electronic countermeasures. Gain insight into the technical challenges associated with multi-sensor tracking networks. Explore the application of electronic warfare concepts to naval surface warfare.
OBJECTIVE:	<ul style="list-style-type: none"> ❖ Explore the basic concepts of electromagnetic field theory ❖ Master the basics of radar cross section, including its generation and reduction ❖ Examine how search radars function ❖ Learn how tracking radars function ❖ Discover how search and tracking radars are used in weapon systems ❖ Learn how the same basic functions are applied in different weapon systems ❖ Examine the functional susceptibilities of weapon systems to electronic warfare ❖ Explore the basics of on-board electric support systems and techniques and both on-board and off-board electronic attack systems and techniques ❖ Explore concepts of multi-sensor target tracking ❖ Examine the application of net-centric concepts to electronic warfare ❖ Explore the application of electronic warfare concepts to naval surface warfare
AUDIENCE:	Engineers/Managers
PREREQUISITES:	None
REGISTRATION:	COMPETENCY SPECIFIC
COST:	None
POC:	(301)757-9103

COURSE TITLE:	<i>DIGITAL RADIO FREQUENCY MEMORY (DRFM) TECHNOLOGY</i>
VENDOR:	Georgia Tech Professional Education P.O. Box 93686 Atlanta, GA 30377-0686
DATE:	26-28 February 13
LOCATION:	Employee Development Center, Building # 2189
DESCRIPTION:	Explore DRFM device technology, including its application to electronic attack, synthetic target generation, and radar jamming. Review fundamental radar concepts to learn why DRFMs make robust and powerful jamming devices. Get up-to-date information on DRFM building blocks, including all typical components such as, frequency converters, Field Programmable Gate Array (FPGA) controllers, Analog-to-Digital Converters (ADC), and Digital-to-Analog Converters (DAC). Review radar Electronic Protection (EP) techniques available to defend systems against DRFM jamming attacks.
OBJECTIVE:	<ul style="list-style-type: none"> ❖ Understand the theory of operation of digital radio frequency memory devices ❖ Understand state-of-the-art in DRFM devices ❖ Know the performance trade-offs of various DRFM architectures and component selections ❖ Explain the operating modes of a DRFM ❖ Program a DRFM to execute standard range-velocity deception techniques ❖ Write a test procedure to evaluate the most important performance requirements of a DRFM ❖ Select candidate electronic protection techniques to defeat a DRFM jammer
AUDIENCE:	Engineers, technologists, and managers involved in design, analysis, simulation, requirements definition, performance specification, procurement, and test & evaluation of electronic attack equipment utilizing DRFM devices . Applicants must have SECRET-level clearance , need-to-know certification, and be U.S. citizens. Defense contractors may meet the need-to-know requirement by having the Need-to-Know Certification and Security Clearance form signed by a Department of Defense contracting officer or an official monitoring a classified program. Government personnel can meet the need-to-know requirement by having a supervisor sign the form.
PREREQUISITE:	None is required, though students should have a basic familiarity with radio frequency concepts and electromagnetic wave propagation theory.
COST:	None
REGISTRATION:	COMPETENCY SPECIFIC
POC:	(301)757-9103

COURSE TITLE:	<i>ELECTRONIC WARFARE (BASIC RF ELECTRONIC WARFARE CONCEPTS)</i>
VENDOR:	Georgia Tech Professional Education P.O. Box 93686 Atlanta, GA 30377-0686
DATE:	16-18 October 12
LOCATION:	Employee Development Center, Building # 2189
DESCRIPTION:	Understand principles of operation of radar-controlled weapon systems and electronic warfare systems designed to counter them, as well as the test & evaluation of these systems. Explore several types of weapon systems in medium-level detail. First master the basic of electromagnetic waves and radar cross section. Then learn the principles of operation for search and tracking radar systems, ratio frequency electronic countermeasures systems, and radio frequency electronic support measures. Explore the implications of data links and networks on the implementation of electronic countermeasures. Gain insight into the technical challenges associated with multi-sensor tracking networks. Explore the application of electronic warfare concepts to naval surface warfare.
OBJECTIVE:	<ul style="list-style-type: none"> ❖ Explore the basic concepts of electromagnetic field theory ❖ Master the basics of radar cross section, including its generation and reduction ❖ Examine how search radars function ❖ Learn how tracking radars function ❖ Discover how search and tracking radars are used in weapon systems ❖ Learn how the same basic functions are applied in different weapon systems ❖ Examine the functional susceptibilities of weapon systems to electronic warfare ❖ Explore the basics of on-board electric support systems and techniques and both on-board and off-board electronic attack systems and techniques ❖ Explore concepts of multi-sensor target tracking ❖ Examine the application of net-centric concepts to electronic warfare ❖ Explore the application of electronic warfare concepts to naval surface warfare
AUDIENCE:	Engineers and Managers.
COST:	None
REGISTRATION:	COMPETENCY SPECIFIC
POC:	(301)757-9103

COURSE TITLE:	<i>FAR-FIELD, ANECHOIC CHAMBER & NEAR FIELD ANTENNA MEASUREMENT TECHNIQUES</i>
VENDOR:	Georgia Tech Professional Education P.O. Box 93686 Atlanta, GA 30377-0686
DATE:	05-09 November 12
LOCATION:	Employee Development Center, Building # 2189
DESCRIPTION:	Master the state-of-the-art far-field, anechoic chamber, compact, and near-field measurement techniques. Learn antenna measurement facility characterization and compensation techniques and microwave holography. Examine theory and optimal application of each technique. Concentrate on basic concepts, design, procedures, and application. Focus on antenna measurements in the HF, VHF, UHF, microwave, and millimeter-wave frequency ranges. Visit MI Technologies' compact range and demonstration facilities.
OBJECTIVE:	<ul style="list-style-type: none"> ❖ Understand the theory of antenna measurement on a variety of antenna measurement facilities ❖ Measure gain, directivity, efficiency, effective area, and polarization of an antenna ❖ Measure far-field patterns on far-field, anechoic chamber, compact, single plane collimating, near-field, and near-field probe array antenna measurement facilities ❖ Determine the accuracy level of antenna measurement facilities ❖ Compensate antenna measurement facilities for nonideal test zone fields ❖ Perform microwave holography to learn the fields on the surface of an antenna or radome
AUDIENCE:	Engineers, Scientists, Engineering managers and Practicing antenna measurement technicians.
REGISTRATION:	COMPETENCY SPECIFIC
COST:	None
POC:	(301) 757-9103

COURSE TITLE:	<i>FUNDAMENTELS OF RADAR SIGNAL PROCESSING</i>
VENDOR:	Georgia Tech Professional Education P.O. Box 93686 Atlanta, GA 30377-0686
DATE:	15-18 October 12
LOCATION:	Employee Development Center, Building # 2189
DESCRIPTION:	This course introduces the student to the foundational signal processing methods at the core of most modern radar systems and provides a solid base for exploring advanced techniques such as radar imaging and adaptive processing. Review basic signal analysis concepts, focusing on Fourier transform relations and sampling. Explore common models of amplitude, Doppler, and statistical characteristics of targets and interference. Master methods for improving signal-to-interference ratio, including waveform modulation and pulse compression, Doppler processing, and adaptive interference rejection methods. Form output products of the signal processor with discussions of threshold detection, single- and multi-target tracking, and radar imaging.
OBJECTIVE:	<ul style="list-style-type: none"> ❖ Select fast- and slow-time sampling rates for acquiring radar signals ❖ Relate bandwidth, resolution, and sampling rates in multiple domains ❖ Understand statistical models of radar signals ❖ Evaluate the performance of MTI and Doppler processors ❖ Select pulse compression waveforms ❖ Predict automatic and CFAR detection performance ❖ Understand basic concepts and design drivers for advanced GMTI and space-time adaptive processing algorithms ❖ Analyze target tracking accuracy and multiple target tracking algorithms ❖ Understand basic principles and design parameters of 2-D imaging radar (synthetic aperture radar) ❖ Apply these techniques to a variety of radar types
AUDIENCE:	Engineers and scientists new to, or seeking a refresher course in radar signal processing, or needing a firm foundation for advanced radar processing studies.
REGISTRATION:	COMPETENCY SPECIFIC
COST:	None
POC:	(301)757-9103

COURSE TITLE:	<i>INFRARED/VISIBLE SIGNATURE SUPPRESSION</i>
VENDOR:	Georgia Tech Professional Education P.O. Box 93686 Atlanta, GA 30377-0686
DATE:	03-06 December 12
LOCATION:	Employee Development Center, Building # 2189
DESCRIPTION:	Examine threat characteristics to derive signature vulnerabilities, suppression strategies, and priorities. Explore signature-generation mechanisms and modeling techniques, as well as special types of challenges posed by a LO platform requirement. Investigate the survivability impact of signature suppression and the value of synergistic techniques with jammers and decoys.
OBJECTIVE:	<ul style="list-style-type: none"> ❖ Evaluate infrared and visible signature management techniques for your system ❖ Reduce signatures with cost-effective techniques ❖ Reduce systems integration and technique problems when using synergistic and opposing technologies for signature management ❖ Compare different techniques and assess technique effectiveness
AUDIENCE:	Platform designers, systems analysts, developers, and procurement decision-makers. Applicants must have SECRET-level clearance , need-to-know certification, and be U.S. citizens. Defense contractors may meet the need-to-know requirement by having the Need-to-Know Certification and Security Clearance form signed by a Department of Defense contracting officer or an official monitoring a classified program. Government personnel can meet the need-to-know requirement by having a supervisor sign the form.
PREREQUISITE:	Familiarity with infrared techniques is assumed, such as that obtained from attending the introductory Infrared Technology and Applications course.
COST:	None
REGISTRATION:	COMPETENCY SPECIFIC
POC:	(301)757-9103

COURSE TITLE:	<i>INTRODUCTION TO INTELLIGENCE, SURVEILLANCE, RECONNAISSANCE (ISR) CONCEPTS, SYSTEMS AND TEST AND EVALUATION</i>
VENDOR:	Georgia Tech Professional Education P.O. Box 93686 Atlanta, GA 30377-0686
DATE:	14-17 January 13
LOCATION:	Employee Development Center, Building # 2189
DESCRIPTION:	Gain an overview of Intelligence, Surveillance, Reconnaissance-enabling technologies, systems engineering, and test & evaluation. Explore technical issues related to measures of performance, test planning, instrumentation, and sensor/system functions. Examine challenges testing of network centric systems (and systems of systems), and review aspects of human factors impacting ISR system performance.
OBJECTIVE:	<ul style="list-style-type: none"> ❖ Explore intelligence, surveillance, reconnaissance systems, processes, and technology ❖ Get the “big picture” of intelligence, surveillance, and reconnaissance concepts and domains ❖ Explore technology areas ranging from imaging sensors to communications and networks ❖ Get an overview of technology areas ranging from imaging sensors to communications and networks ❖ Understand challenges of testing systems ❖ Understand how human factors can affect Intelligence, Surveillance, Reconnaissance systems
AUDIENCE:	Engineers, Technicians and Managers
COST:	None
REGISTRATION:	COMPETENCY SPECIFIC
POC:	(301)757-9103

COURSE TITLE:	<i>M&S OF ANTENNAS</i>
VENDOR:	Georgia Tech Professional Education P.O. Box 93686 Atlanta, GA 30377-0686
DATE:	12-15 March 13
LOCATION:	Employee Development Center, Building # 2189
DESCRIPTION:	Acquire an overview of antenna architectures and modeling theory, with an emphasis on various methods of modeling the antenna architectures. Explore major modeling methods, with a focus on commercial modeling codes and custom modeling codes in MATLAB for modeling various types of antennas.
OBJECTIVE:	<ul style="list-style-type: none"> ❖ Understand the principles of antenna theory and the major antenna modeling methodologies ❖ Use these principles to understand appropriate antenna modeling methodologies for a variety of antenna types, including monopoles, dipoles, microstrip patches, slots, spirals, horns, reflector, and array antennas
AUDIENCE:	Engineers, Scientists, Managers and Technicians
REGISTRATION:	COMPETENCY SPECIFIC
COST:	None
POC:	(301)757-9103

COURSE TITLE:	<i>MILITARY LASER PRINCIPLES AND APPLICATIONS</i>
VENDOR:	Georgia Tech Professional Education P.O. Box 93686 Atlanta, GA 30377-0686
DATE:	10-14 December 12
LOCATION:	Employee Development Center, Building # 2189
DESCRIPTION:	Review basic operating and design principles underlying laser-based military devices. Examine the operating principles of lasers with an emphasis on military systems, and get an overview of important technical issues associated with designing systems incorporating lasers. Explore basic laser operating principles, system design considerations, and environmental effects. Focus on an examination of existing military systems that incorporate lasers as a primary component.
OBJECTIVE:	<ul style="list-style-type: none"> ❖ Understand the basic operating principles of lasers ❖ Understand major design issues associated with laser-based systems ❖ Identify the major components and technologies in military laser systems ❖ Explain the operation of laser-based military systems ❖ Gain insight into evolving applications of lasers
AUDIENCE:	Engineers, Scientists, System analysts, Technicians, Technical managers, Procurement decision-makers and Military planners.
PREREQUISITE:	Familiarity with basic optics and physics, such as that found in a two semester university level introductory physics course is beneficial.
COST:	None
REGISTRATION:	COMPETENCY SPECIFIC
POC:	(301)757-9103

COURSE TITLE:	<i>MIL STD 1553 SEMINAR</i>
VENDOR:	Test Systems, Inc. 217 West Paltaire Phoenix, AZ 85021
DATE:	01-03 October 12
Location	Southern Maryland Higher Education Center, California, MD
DESCRIPTION:	Test Systems has designed a unique three-day seminar covering the applications of MIL STD 1553 for Military and Civilian use within NAVAIRs ISEET Department. The training will provide essential training to support testing.
OBJECTIVE:	At the conclusion of this course, participants should be able to: <ul style="list-style-type: none"> ❖ Decode Manchester encoded words ❖ Identify message formats ❖ Be familiar with terminal operation and protocol ❖ Understand system and software design and the phases and requirements of testing
AUDIENCE:	Attendees to this class can include Military and Civilian employees. Note: Contractors are not eligible to attend.
REGISTRATION:	COMPETENCY SPECIFIC
COST:	None
POC:	(301)757-9103

COURSE TITLE:	<i>MIL STD 1760</i>
VENDOR:	Test Systems, Inc. 217 West Paltaire Phoenix, AZ 85021
DATE:	05-08 November 12
LOCATION:	Southern Maryland Higher Education Center, California, MD
DESCRIPTION:	Test Systems has designed a unique three-day seminar covering the applications of MIL STD 1760 for Military and Civilian use within NAVAIRs ISEET Department. The training will provide essential training to support testing.
OBJECTIVE:	<ul style="list-style-type: none"> ❖ The course will cover AEIS principles including physical, electrical, and logical elements ❖ More topics include MIL STD 1553 usage and restrictions ❖ MIL STD 1760 communication rules and standard data entries
AUDIENCE:	Attendees to this class can include Military and Civilian employees. Note: Contractors are not eligible to attend.
REGISTRATION:	COMPETENCY SPECIFIC
COST:	None
POC:	(301)757-9103

COURSE TITLE:	<i>MULTI-SENSOR DATA FUSION</i>
VENDOR:	Georgia Tech Professional Education P.O. Box 93686 Atlanta, GA 30377-0686
DATE:	18-21 March 13
LOCATION:	Employee Development Center, Building # 2189
DESCRIPTION:	Accurate and efficient management of information on the battlefield is vital for successful military operations. Integrating and interpreting data is an emerging technology, commonly referred to as data fusion. The power to exploit all relevant information rapidly and effectively is at the core of the Net-Centric Operations (NCO) paradigm. To further advance the knowledge and work on data fusion, the military will need to identify concerns in technological advancement, analyze current and future requirements, as well as overcome the major challenges faced, and how these challenges can be resolved.
OBJECTIVE:	<ul style="list-style-type: none"> ❖ Identify and characterize the principal components of military data fusion systems ❖ Learn the state-of the art in multi-sensor integration, target tracking, identification, and situation/threat assessment ❖ Select fusion techniques appropriate to system and mission needs ❖ Understand the process of automatically filtering, aggregating and extracting the desired information from multiple sensors and sources
AUDIENCE:	Project Managers, Software and systems engineers, Scientists and military and intelligence officers/users tasked with developing, using or evaluating sensor/data fusion techniques and systems, Military or industry representatives.
COST:	None
REGISTRATION:	COMPETENCY SPECIFIC
POC:	(301)757-9103

COURSE TITLE:	<i>NANO TECHNOLOGY</i>
VENDOR:	Georgia Tech Professional Education P.O. Box 93686 Atlanta, GA 30377-0686
DATE:	21-23 May 13
LOCATION:	Employee Development Center, Building # 2189
DESCRIPTION:	Gain an understanding of the terms and definitions associated with the new field of nanotechnology. Explore the disruptive implications that nanotechnologies may have on commercial and defense applications. Examine the broad range of nanotechnology materials. Learn about the processes and tools used to produce nano-materials and nano-products. Survey the list of companies that are supplying or using nanotechnology materials. Learn how these materials are characterized. Explore how these materials may be used in future applications.
OBJECTIVE:	<p>This course will help prepare engineers, scientists and managers to evaluate the benefits that nanotechnologies may offer to the products their organizations are developing or are acquiring.</p> <ul style="list-style-type: none"> ❖ Learn terms and definitions associated with nanotechnology ❖ Learn about nano-materials ❖ Learn about nano-materials applications ❖ Learn how nano-materials and product are produced
AUDIENCE:	Engineers, Scientists and Managers
COST:	None
REGISTRATION:	COMPETENCY SPECIFIC
POC:	(301)757-9103

COURSE TITLE:	<i>PHASED ARRAY RADAR SYSTEMS</i>
VENDOR:	Georgia Tech Professional Education P.O. Box 93686 Atlanta, GA 30377-0686
DATE:	11-13 December 12
LOCATION:	Employee Development Center, Building # 2189
DESCRIPTION:	Get an overview of phased array radar system requirements and operation, which is reinforced by application examples. Examine major subsystems and associated technologies with specialists in those areas. Focus on phased array antenna principles and design, as well as on software algorithms for search and track. System implementation trends and recent technological developments are summarized. See demonstrations of antenna modeling software and hardware.
OBJECTIVE:	<ul style="list-style-type: none"> ❖ Understand and describe the complexities of a multi-function phased array radar ❖ Become familiar with modern phased array radar technologies ❖ Analyze phased array antenna designs ❖ Analyze phased array radar system performance
AUDIENCE:	Engineers and managers engaged in the specification, procurement, design and development, testing, and operation of current and future radar systems.
PREREQUISITES:	None
REGISTRATION:	COMPETENCY SPECIFIC
COST:	None
POC:	(301)757-9103

COURSE TITLE:	<i>RADAR CROSS-SECTION</i>
VENDOR:	Georgia Tech Professional Education P.O. Box 93686 Atlanta, GA 30377-0686
DATE:	04-07 March 13
LOCATION:	Patuxent River, Maryland
DESCRIPTION:	Review radar echo characteristics and how they may be controlled or modified, focusing on radar cross section reduction principles and basic concepts. Explore aviation radar cross section reduction applications, while touching on radar cross section reduction for ships and tanks. Examine basic techniques of echo control and characteristics of simple shapes. Review tools used in devising radar cross section reduction treatments. Get hands-on experience with materials characterization and applying these materials to a test body.
OBJECTIVE:	<ul style="list-style-type: none"> ❖ Place radar cross section reduction in the context of the overall platform survivability ❖ Understand the fundamentals of high-frequency and low-frequency scattering mechanisms ❖ Reduce scattering through platform shaping and material treatments ❖ Understand radar cross section measurement and prediction data formats ❖ Understand radar cross section reduction in terms of reliability and maintainability through the platform's life cycle
AUDIENCE:	Engineers; Maintenance crews and Managers from industry and the military. Applicants must have SECRET-level clearance , need-to-know certification, and be U.S. citizens. Defense contractors may meet the need-to-know requirement by having the Need-to-Know Certification and Security Clearance form signed by a Department of Defense contracting officer or an official monitoring a classified program. Government personnel can meet the need-to-know requirement by having a supervisor sign the form.
PREREQUISITE:	Though not required, some knowledge of electromagnetic theory is helpful.
COST:	None
REGISTRATION:	COMPETENCY SPECIFIC
POC:	(301)757-9103

COURSE TITLE:	<i>TRANSMIT/RECEIVE MODULES FOR PHASE ARRAY RADAR</i>
VENDOR:	Georgia Tech Professional Education P.O. Box 93686 Atlanta, GA 30377-0686
DATE:	09-11 April 13
LOCATION:	Employee Development Center, Building # 2189
DESCRIPTION:	Gain an in-depth look at the hardware that comprises state-of-the-art transmit/receive modules. Explore transmit/receive module requirements, module design, hybrid and monolithic microwave integrated circuits, thermal management, packaging, and cost. Examine practical issues, such as design trade-offs, technology limitations, and performance trade-offs. An introduction to phased array antennas and the important functions that transmit/receive modules perform in these systems will also be covered.
OBJECTIVE:	<ul style="list-style-type: none"> ❖ Examine computer simulation of monolithic microwave integrated circuits design and transmit/receive module electromagnetic structure simulation ❖ Observe transmit/receive module thermal management validation using thermal imaging ❖ Become familiar with transmit/receive module component design through interactive labs
AUDIENCE:	Engineers, Scientists and Managers.
COST:	None
REGISTRATION:	COMPETENCY SPECIFIC
POC:	(301)757-9103