I wish my training budget was larger so I could use UAH for all my training needs! If you want to build a competent workforce, PD Solutions is the go to training provider.

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In the increasingly competitive contracting arena, employees are expected to meet more demands than ever. The University of Alabama in Huntsville (UAH) is uniquely equipped to prepare your team to meet those demands by utilizing the knowledge of respected subject-matter experts. UAH is one of the nation’s premier research universities and is home to the internationally respected Propulsion Research Center, which works with a broad range of clients including NASA, DoD, DoE, MDA, Aerojet Rocketdyne, HyperV Technologies Corporation, and C3 Propulsion. We have over twenty professional certificate programs including:

- **Rocket Propulsion Certificate** Three course series
- **Applied Systems Engineering Certificate** Five course series

Expand your knowledge and gain a thorough understanding from real-world examples and techniques that you can apply immediately in your organization. Courses are available in the classroom, online, or customized for your organization.

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Sharpen your technical understanding of rocket propulsion from first principles to practical case studies. Learn from our subject-matter experts the foundation of rocket propulsion and missile basics including the principles of conventional and advanced propulsion system operation. These courses provide a wealth of technical materials and case studies relevant to both propulsion engineers and project managers.

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### Rocket Propulsion Fundamentals

Gain a foundation in the complex factors that shape propulsion systems. Grasp the essentials of propulsion technology through an introduction to common aerospace propulsion systems including rockets, airbreathing, thermal, and electric.

*M. Benfield, 12 hrs, $895*

*Campus: Jun 26 – 27, 2018  |  T, W  |  8:30 am – 3:30 pm*

*Online: D2318011*

### Advanced Solid Rocket Propulsion

A joint NASA/UAH/Industry initiative resulted in bringing the national experts in solid rocket propulsion to UAH to educate the next generation of solid rocket motor engineers. Take advantage of this opportunity to engage in an extensive review of solid rocket propulsion. You will learn from recognized specialists about rocket component design and propellant properties.

*R. Fredrick Jr., 40 hrs, $1295*

*Campus: Jul 23 – 27, 2018  |  M – F  |  8:30 am – 4:30 pm*

*Online: D2318014*

### Liquid Rocket Engineering

Participants will benefit from an overview of common liquid rocket engine power cycles, propellants and components. The instructor will lead participants to an understanding of the function, operation, and design considerations of the individual components which comprise a liquid rocket engine such as turbopumps, thrust chambers, preburners, gas generators, igniters, and valves.

*S. Claflin, 35 hrs, $1295*

*Campus: Jul 23 – 27, 2018  |  M – F  |  8:30 am – 4:30 pm*

*Online: D2318013*

### Combustion Instability in Solid Rockets

In five days, gain an appreciation and understanding of solid rocket combustion instability from internationally recognized solid propulsion experts and practitioners, Dr. Frederick Blomshield and Dr. Robert Frederick.

*F. Blomshield/R. Frederick, 35 hrs, $1295*

*Online: D2318012*
I learned a lot of very relevant information that I can apply to my job. I won’t have to search as much for information now. The combination of course materials in addition to the instructor’s personal experiences was very beneficial.
Systems Engineering Overview

Systems engineering is a primary approach to the increasing size and complexity of modern systems. This overview is designed to introduce the systems engineer and project manager to fundamental concepts and operating principles of systems engineering.

G. Tackett, 14 hrs, $795
Campus: Jul 24 – 25, 2018  |  T, W  |  8:30 am – 4:30 pm
Online: D2318006

Requirements Development

Requirements Development learning follows the understanding and development of customer requirements, transforming those requirements to a detailed specification, followed by verification and validation methods to prove the product meets the specification and its intended use by the customer.

G. McPherson, 14 hrs, $795
Campus: Aug 28 – 29, 2018  |  T, W  |  8:30 am – 4:30 pm
Online: D2318007

I really enjoyed the instructor! He is very knowledgeable about many things, and he explained things in a way which I found easy to follow and understand.

The instructor gave real-life, defense-related examples that were easy to understand. I found the content to be useful and significant.
Applied System Design and Decision Making

Systems engineers are responsible for gathering information and making decisions based on that complex, and often ambiguous, information. You will learn to master trade studies—the identification of alternatives and application of decision-making methodology.

D. Gunther, 14 hrs, $795
Campus: Oct 2 – 3, 2018 | T, W | 8:30 am – 4:30 pm
Online: D2318009

Systems Analysis, Modeling, and Simulation

Develop an understanding of the objectives of systems analysis and its foundational role in systems engineering. Complementing System Validation and Verification, this course provides broad coverage of the analytical methods that, with tests, provide the basis for systems validation and verification processes and procedures.

J. Little, 14 hrs, $795
Campus: Nov 6 – 7, 2018 | T, W | 8:30 am – 4:30 pm
Online: D2318008

System Validation and Verification

Ensure that you have a complete approach to the Validation and Verification (V&V) of your product. The process of System V&V seeks to assure the developer of a new system that it works as designed, and that the design fulfills its intended function.

D. Gunther, 14 hrs, $795
Campus: Dec 11 – 12, 2018 | T, W | 8:30 am – 4:30 pm
Online: D2318010

Ways to Register

ONLINE
PCS.uah.edu/PDSolutions

PHONE
256.824.6010 or 800.448.4031, 8:15 am – 5 pm (CST), M – F

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For policies, course info, and instructor bios, visit PCS.uah.edu
PROFESSIONAL CERTIFICATES:

ROCKET PROPULSION

APPLIED SYSTEMS ENGINEERING