



**Course Title: Fiber Optics for Military Applications**

Course Description: *Fiber Optics for Military Applications is a specially designed two-day course on fiber optic technology for communication, radar and wireless systems with special material developed by Artisan Laboratories Corporation staff and not found elsewhere. The course is ideal for engineers and technical managers that need to know the latest in fiber optic and photonic technology and their application in military and commercial systems.*

*The course consists of three modules that include the history and evolution of fiber optics; fiber optic cable design; optical transmitters and photoreceiver; lightwave systems; optical amplifiers and multi-channel optical systems. There are two specially designed modules that consist of unique material on analog fiber optic links and advanced applications for military and commercial systems that are specially design by Artisan Laboratories Corporation staff.*

*Materials include full color PDF files of the material and hard copies. Demonstrations include optical system design using software.*

**Contact us today to set up training on your site.**

| Time           | Day 1  | Day 2   |
|----------------|--|---|
| 9:00 to 10:15  | <b><u>Module 1 Optical Fibers</u></b><br>History of Fiber Optic Communications<br>Fiber Optic cables | <b><u>Module 4 Optical systems</u></b><br>Lightwave systems<br>Optical amplifiers<br>Multi-channel optical systems  |
| 10:30 to 11:30 | <b><u>Module 2 Transmitters and Receivers</u></b>  |   |
| 12:45 to 2:15  | Optical Transmitters<br>Optical Receivers  | <b><u>Module 5 Military uses</u></b><br>Testing fiber optic system performance<br>Hybrid fiber wireless communications<br>Optics in phased array antennas |
| 2:30 to 4:00   | <b><u>Module 3 Microwave signal transmission</u></b><br>Analog fiber optics                          |   |

About the Lecturer:

Dr. Arthur Paoella, an IEEE Fellow, is CEO and founder of Artisan Laboratories Corporation a high technology company that develops RF, microwave and fiber optics products and technology for the aerospace, radar and biomedical industries. Dr. Paoella received his Ph.D. from Drexel University in 1992. He has over 15 patents and over 60 publications in journals and conference proceeding.

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