

# Got Fastener Training?

## Automotive Fastener Technology

by:

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FASTENER  
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The **Fastener Training Institute®** with the **Industrial Fasteners Institute (IFI)**, will offer *Automotive Fastener Technology* twice in 2013. This technical two-day course was created to provide a better understanding of automotive fasteners for service providers, fastener manufacturers, tier suppliers and OEMs.

*Automotive Fastener Technology* emphasizes a hands-on approach along with in-depth technical content and includes classroom instruction along with tours of a heat treating facility and a coating/surface finishing facility.

This year the course will be presented in Troy, MI, USA, Wednesday to Thursday, May 8 to 9, 2013, and in Cleveland, OH, USA, Thursday to Friday, June 13 to 14, 2013.

Check [www.FastenerTraining.org](http://www.FastenerTraining.org) to view details of the course content and to register on-line. Topics covered at *Automotive Fastener Tehcnology* will include:

- Fastener tightening: fundamentals of fastener tightening and the relationship between torque-tension-angle of rotation; demonstration of tightening technology.
- Failure analysis: fundamentals of fracture and failure.
- Fastener metallurgy: basics of steel fastener materials, metallurgy and progression from raw material to finished product.
- Heat treatment: basic principles of steel heat treatment, through hardening, surface hardening; tour of a heat treatment facility.
- Coatings and surface finishes: basics of coating materials/corrosion protection; friction modification; common automotive coating processes; tour of a coating/surface finishing facility.

### Who Should Attend:

This training is targeted toward technical personnel and support staff looking to consolidate fundamental knowledge and to acquire advanced technical information about automotive fasteners. Engineers, technicians, metallurgists and technical sales staff all will benefit from this training.

### What Our Students Have to Say:

"I will send more employees to this seminar next time it is offered."

"Very informative. Plant tours were great."

"Good job! Glad I attended."

"Been asking for this type of overview class for many years."

"The metallurgy was very well explained and full of useful information."

### Instructors:

**Joe Greenslade** is Director of Engineering Technology for the Industrial Fasteners Institute (IFI). He has more than 40 years experience in the fastener industry (sales, applications engineering, tooling design, gage design, engineering management and general management). Greenslade has written more than 300 technical articles for fastener trade journals and spoken at scores of fastener industry events. He serves on all of the fastener standards organization committees for the **American Society of Mechanical Engineers**, the **American Society for Materials and Testing**, **SAE** and **ISO**. He has also served as the technical representative for fastener distributors on the **Fastener Quality Act (FQA) Task Force** that worked along with the federal government during the creation of the FQA.



Salim Brahimi



Joe Greenslade

Salim Brahimi is President of **IBECA Technologies** and a licensed member of the **Quebec Order of Professional Engineers**. With more than 24 years of experience in the fastener industry (Metallurgist, Process Engineer and Director of Quality and Engineering), Brahimi is current chair of **ASTM Committee F16** (fasteners) and member of the **SAE Fastener Committee**. He is the recipient of the Fred F. Weingruber award by ASTM Committee F16 for outstanding contributions to the development of fastener standards, especially in the area of hydrogen embrittlement.

Please contact the Fastener Training Institute via email at [info@FastenerTraining.org](mailto:info@FastenerTraining.org) to be placed on a mailing list for any fastener training courses. Also check the website below for the complete 2013 calendar.

The Fastener Training Institute's core purpose is to enhance fastener use, safety and reliability.

[www.FastenerTraining.org](http://www.FastenerTraining.org)

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**John Wachman** is Director of the **Fastener Training Institute** and the head of **Desert Distribution Sales LLC**, a manufacturer's representative company located in Scottsdale, AZ, USA. To receive additional information visit: [www.FastenerTraining.org](http://www.FastenerTraining.org).