

## CURRICULUM OVERVIEW (cont.)

### Fastener Tools - Sockets & Bits

OBJECTIVE: You will learn how simple bits and sockets affect the assembly process. You'll review when special sockets or bits are appropriate.

### Pulse Tool

OBJECTIVE: Learn how pulse tools work. Understand the nuances in selecting the proper pulse tool for specific applications, based on the customer's priorities. Discover the types and fourteen generations of pulse tools. Review maintenance, repair, and diagnostic guidelines. Watch a pulse fluid change demonstration.

### Torque Measurement

OBJECTIVE: To understand and compare the three methods of measurement: static, dynamic and residual. To learn what information each method provides. To see first hand how tool-type selection and joint rate affect torque measurement. Practice with the various types of equipment used on many assembly floors. Review basic tester and analyzer programming. Understand frequency response.

### Controlled Tools

OBJECTIVE: Learn how controlled tools function, differentiate between continuous and non continuous versions. Discover means to enable pneumatic tools to shift speeds similar to DC tools. Practice programming strategies on systems and varying joint dynamics.

### Application Role Plays

OBJECTIVE: Given a workpiece and written scenario, you and your group members decide the best tool and auxiliary equipment to fulfill this customer's needs.

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# TOOL-U

Tool University {Complete Training & Education}



ACHIEVING ASSEMBLY EXCELLENCE



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## CUSTOM TRAINING

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Custom training sessions can be scheduled by contacting AIMCO directly.

## ENROLL

Enroll in one of AIMCO's Technical Training Program sessions today by calling your AIMCO sales representative.

Maximum capacity for each session is eight people, so enroll today to ensure your position.

## GROUP ENROLLMENT

If your company has a group of four or more salespeople who would like to advance their sales knowledge of AIMCO products, AIMCO can schedule a special training session just for you.

### Contact Ken Maio

Training Manager  
1-800-852-1368  
Email: Ken.Maio@aimco-global.com

## Welcome to AIMCO Tool University

AIMCO's training programs have been designed to cover all the elements that influence the fastening process and its associated costs. Starting with understanding the mechanics of the fastened joint itself, attendees will then explore the relationship between the joint, power tool, torque requirements and the operator.

Through both classroom and hands-on training, each one of these elements is covered in depth through the use of our PERQ® process:

- **Productivity** – the speed and efficiency of assembly.
- **Ergonomics** – the relationship between process and personnel.
- **Reliability** – the frequency and cost of repair and maintenance.
- **Quality** – the adherence to engineering specifications.



Through both classroom and hands-on training, each one of these elements is covered in depth through the use of our P.E.R.Q.® process. This “systems approach” to assembly will bring together all factors that enable production of high quality products, efficiently and ergonomically by covering the following key topics:

- Understanding all elements of the fastened joint. Review the variables that influence torque measurement, data collection and process evaluation.
- Proper tool selection - defined by the joint criteria.
- Reaction impulse and other cumulative traumas - causes, effects and remedies.
- Explore levels of automating the fastening process.
- The reasons for a “systems approach” to every application.
- Preventative maintenance and trouble-shooting techniques.

## CURRICULUM OVERVIEW

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### Back to Basics

OBJECTIVE: Review torque, joint rates, clamp load and other basic concepts.

### P.E.R.Q.® Principle

OBJECTIVE: To understand the primary motivations of many production engineers. To discover how each principle affects the other and their role in selecting the proper assembly solution.

### Clutch Types

OBJECTIVE: Practice with the five major clutch styles. Compare and contrast their features and how to choose which type for different applications.

### Torque Reaction

OBJECTIVE: Understand sources and factors in torque reaction. Understand how tool type and grip style affect torque reaction and ergonomics.

### Ergonomics and Tool Supports

OBJECTIVE: Tool Supports make a cleaner work area, protect tools and increase ergonomics.

### Tool Setup and Adjustments

OBJECTIVE: Using hands on techniques, learn how to setup and adjust different tool types to be ready for use by an operator

### Productivity Enhancements

OBJECTIVE: Looking to increase your productivity? Review screw presenters and screw feeding systems. You'll also cover fastener anatomy basics and payback calculations.

### Financial Considerations

OBJECTIVE: Review examples to determine cost justifications, paybacks and return on investment (ROI).