

TEST FIXTURE CERTIFICATION PROGRAM

DESIGNED FOR ELECTRONIC TEST ENGINEERS AND TECHNICIANS

Joule University

WHERE TEST GETS TRAINED

WHY GET CERTIFIED?



DECREASE DOWNTIME

Get your entire test support team trained in the proper methods to maintain and repair their test fixtures.



INCREASE YIELDS

Learn how to manage an effective maintenance schedule by doing the right things at the right time.



REDUCE INVENTORY

Eliminate excess inventory by learning how to standardize hardware, where to order parts and specify accessible parts.

HOW?

1

DECIDE TO INVEST IN YOUR COMPANY'S FUTURE

2

REGISTER YOUR TEAM

3

IMPLEMENT

www.JouleU.com

Joule Technologies
4167 W Orleans St.
McHenry, IL 60050

Electronics Manufacturing Test Technician Certification Program

CLASS	TEST FIXTURE HARDWARE OVERVIEW	TEST FIXTURE MAINTENANCE LEVEL 1	TEST FIXTURE MAINTENANCE LEVEL 2	TROUBLE SHOOTING LEVEL 1	TROUBLE SHOOTING LEVEL 2	DEVELOPING FIXTURE STATEMENTS OF WORK AND DESIGN STANDARDS
COURSE DESCRIPTION	Introductory course designed to introduce the participant to test fixture nomenclature and test fixture operation.	Course 1 of 2 intended for personnel who will be conducting periodic test fixture maintenance.	Course 2 of 2 intended for personnel who will be conducting periodic test fixture maintenance.	Course 1 of 2 intended to provide technicians and engineers with the knowledge to trouble shoot and repair test fixtures	Course 2 of 2 intended to provide technicians and engineers with the knowledge to trouble shoot and repair test fixtures	This course will enable the participant to write fixture specs that ensures higher yields and maintenance standards
TARGET AUDIENCE	Test technicians with little or no background in test fixtures	Technicians and engineers responsible for test fixture performance and production yields	Technicians and engineers responsible for test fixture performance and production yields	Technicians and engineers responsible for test fixture performance and production yields	Technicians and engineers responsible for test fixture performance and production yields	Technicians and engineers responsible for specifying test fixtures
COURSE OBJECTIVES	<ul style="list-style-type: none"> ▪ A test fixture's purpose ▪ Fixture hardware basics ▪ Vacuum fixture operation ▪ Mechanical fixture operation ▪ Pneumatic fixture operation ▪ ESD 	<ul style="list-style-type: none"> ▪ Monthly maintenance checklist ▪ Cleaning a fixture ▪ Gasket check and replacement ▪ Probe replacement ▪ Gas shock check 	<ul style="list-style-type: none"> ▪ Annual maintenance checklist ▪ Tooling pin replacement ▪ Targeting ▪ Travel ▪ Top access alignment ▪ Gas shock ▪ Replacing sockets 	<ul style="list-style-type: none"> ▪ Bottom targeting issues ▪ Top targeting issues ▪ Vacuum Leaks ▪ Shorts / opens ▪ Intermittent contact 	<ul style="list-style-type: none"> ▪ Uneven actuation ▪ Side access unit repair and alignment ▪ Strain gauge measurements 	<ul style="list-style-type: none"> ▪ What is a SOW ▪ Why have a SOW ▪ Vacuum standards ▪ Labelling standards ▪ How to generate a test fixture RFQ ▪ The fixture build process ▪ Pre-shipping requirements ▪ Incoming inspection standards
COURSE PREREQUISITES	None	None	Test Fixture Maintenance Level 1	Test Fixture Maintenance Level 2	Trouble Shooting Level 1	None
MINIMUM CLASS REQUIREMENTS	4 pp / 6 pp	6 People	6 People	3 People	3 People	1 / 4
FACILITY REQUIREMENTS	Remote / On-Site	On-Site Vacuum and Shop Air	On-Site Vacuum and Shop Air	On-Site Vacuum and Shop Air	On-Site Vacuum and Shop Air	Remote / On-Site
CLASS HOURS	3.5 hours of classroom 4.0 hours total	3.5 hours of classroom	3.5 hours of classroom	3.5 hours of classroom	3.5 hours of classroom	3.5 hours of classroom
PROVIDED BY INSTRUCTOR	Workbook	Workbook and Toolset	Workbook and Toolset	Workbook	Workbook	Workbook
CERTIFICATE ISSUED	Yes	Yes	Yes	Yes	Yes	Yes