



JIG & FIXTURES DESIGN

Who should attend:

Engineers, Tool
Designers, Drawing
Maker, Inspection
Personnel

Duration:

3 days

Methodology:

Instructor led
Presentation,
exercises and
discussion

(HRDF Claimable under
SBL/SBL-KHAS Scheme)

Get discounts for groups
of 3 or more.

*Price inclusive tea
breaks and notes.

Introduction

Despite the many advancements and changes in cutting tools, machine tools, and production methods, the basic requirement of holding the workpiece has remained constant. Every part produced must be held while it is machined, joined, or inspected or has any number of other operations performed on it. So, whether the operation requires a simple drill press, a multiple-axes computer, or numerically controlled machining center, the workpiece must be accurately located and securely held throughout the operation. Will be focusing on the different variations and type of Jig & Fixture and how to approach the design systematically.

Objective

- Understanding the History and differences between Jig & Fixture
- The basic principal and consideration of designing Jig & Fixture
- The step of approach in Designing Jigs and Fixtures.

MAWEA INDUSTRIES SDN BHD

A member of IME Group of Companies - Certified ISO 9001:2015 QMS

Representative office C-3A-3A Oasis Square, No 2 Jln PJU 1A/7A, Ara Damansara, 47301 PJ, Selangor, Malaysia. +603-7734 2881

Headquarters 30A Jln PJS 1/46, Tmn Petaling Utama, 46000 PJ, Selangor, Malaysia. +603-7783 6866

Penang 68 Jln Perai Jaya 4, Bandar Perai Jaya, 13700 Pulau Pinang, Malaysia. +604-399 5571

Johor 25-01 Jln Bestari 8/2, Tmn Nusa Bestari, 79150 Iskandar Puteri, Johor, Malaysia. +607-238 7978

Key Topics:

Day 1

- History of Jig & Fixture
- ISO FIT and GD&T Recap
- Overview of Jigs & Fixtures
- Jig & Fixtures Design Principles

Day 2

- Choice of Location System & Location Principles
- Foolproofing & Location Methods
- Basic System & Principle of Clamping
- Types & Method of Clamping
- Economic Design Aspects

Day 3

Case Studies

- Initial Development, Production Plan and Alternatives
- Design of Template Jigs
- Design of Vice Held Fixtures
- Design of Indexing Jigs

MAWEA INDUSTRIES SDN BHD

A member of IME Group of Companies - Certified ISO 9001:2015 QMS

Representative office C-3A-3A Oasis Square, No 2 Jln PJU 1A/7A, Ara Damansara, 47301 PJ, Selangor, Malaysia. +603-7734 2881

Headquarters 30A Jln PJS 1/46, Tmn Petaling Utama, 46000 PJ, Selangor, Malaysia. +603-7783 6866

Penang 68 Jln Perai Jaya 4, Bandar Perai Jaya, 13700 Pulau Pinang, Malaysia. +604-399 5571

Johor 25-01 Jln Bestari 8/2, Tmn Nusa Bestari, 79150 Iskandar Puteri, Johor, Malaysia. +607-238 7978

