for a greener tomorrow

MITSUBISHI ELECTRIC
Changes for the Better

Introduction to Machining

OPERATIONS & PROGRAMMING

Course Description

Introduction to Machining	
Course Code	MEPRG0-0100
Course Credit	4.0 Credits
Length	3 Days
Price	$2,000
Prerequisite	None

INTRODUCTION

This course is intended to teach the fundamentals of machining and how they are applied to CNC machine tools. The class will focus on specific concepts and examples of mill & lathe operations. At the end of the course, students will understand what is required to cut and shape metal into usable machined parts for industry.

WHO SHOULD ATTEND?

Students new to the machining or manufacturing field should attend. This course is a must for students who are interested in pursuing a career as a machinist or CNC operator.

COURSE HARDWARE

N/A

PREREQUISITES EXPLAINED

Students should be able to perform high school-level math and have knowledge of basic hand tools.

COURSE OUTLINE

LESSON 1	What is Machining?
LESSON 2	History and Industries Served
LESSON 3	Types & Uses of CNC Machines
LESSON 4	Machine Safety
LESSON 5	Tooling
LESSON 6	Work Materials
LESSON 7	Basic Mill Operations
LESSON 8	Basic Lathe Operations
LESSON 9	Machine Math & Measurements
LESSON 10	Blueprints and Machine Part Planning

CERTIFICATION LEVELS

Become a CNC programmer by taking a few more classes combined with this one. Learn here. If you are a high school or college student, under our **Diamond***works!* Program, learn how to become an entry-level Apprentice or Operator here.

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