



CONSTRUCTION MANPOWER DEVELOPMENT FOUNDATION



FACT SHEET

MECHATRONICS WITH APPLICATION TO HEAVY EQUIPMENT TROUBLESHOOTING

Course Description:

A 5-day training/workshop designed to provide participants with the basic and advance principles of mechatronics and its application to heavy equipment troubleshooting. It includes heavy equipment mechatronics systems simulations to ensure comprehensive understanding of actual mechatronic system present in the heavy equipment. Practical heavy equipment servicing will also be conducted to guide and coach participants on the proper troubleshooting procedure with the use of mechatronic approach in addition to up to date troubleshooting techniques. Assessment will be conducted to the participants to check their knowledge and skills at the end of the training.

Course Objectives:

At the end of this training, the participants shall be able to;

- Understand mechatronics system and classify its basic components, structure and functions
- Proficiently use manufacturer's manual, interpret circuit diagrams, and read technical symbols
- Use diagnostic instruments on electronic components for Construction Heavy Equipment
- Integrate mechatronic approach to perform standard troubleshooting procedure on Construction Heavy Equipment

Target Participants:

- Existing Heavy Equipment Electricians or Mechanics with at least 2 years experience
- Heavy Equipment In-charge
- Other professions related to construction with passion to learn mechatronics and heavy equipment troubleshooting