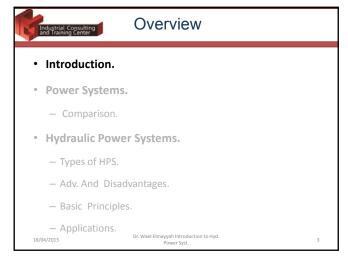
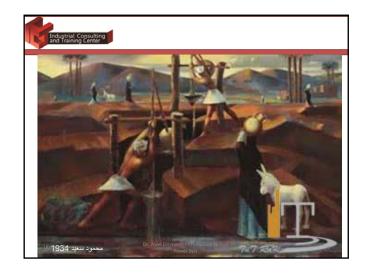
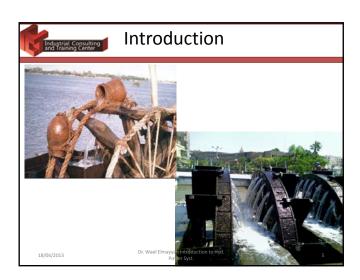
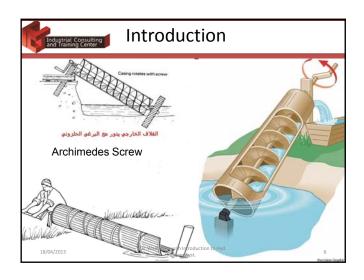


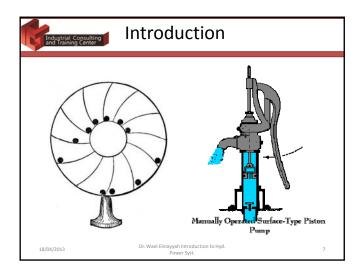
Industrial Consulting and Training Center	Overview	
• Introduction.		
<ul> <li>Power Systen</li> </ul>	ns.	
<ul><li>Comparison</li></ul>		
Hydraulic Pov	ver Systems.	
<ul><li>Types of HPS</li></ul>	<b>).</b>	
– Adv. And Dis	sadvantages.	
– Basic Princip	oles.	
<ul> <li>Applications.</li> </ul>	•	

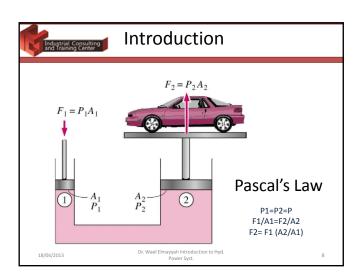


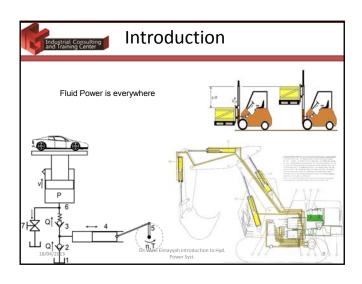


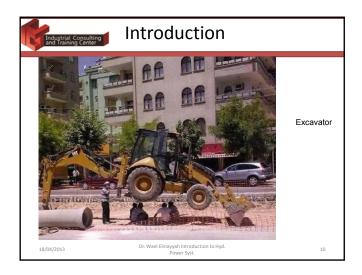


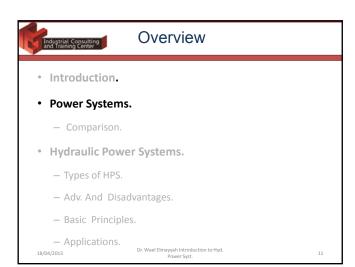


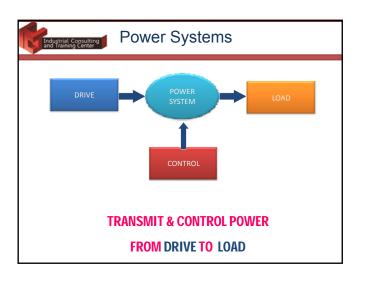


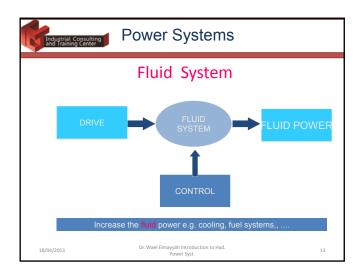


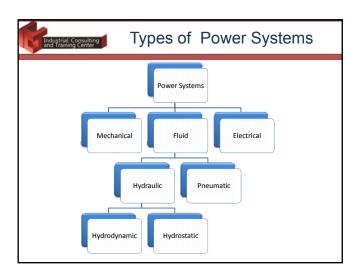


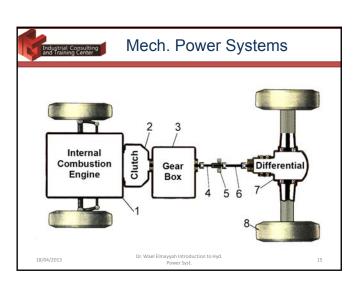


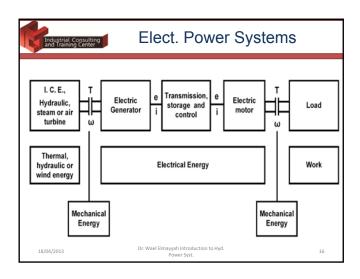


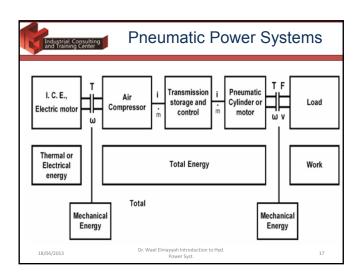


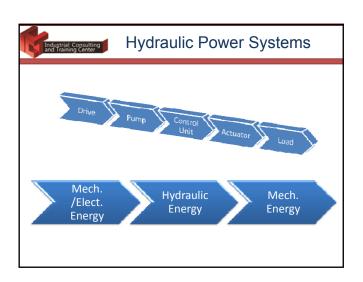












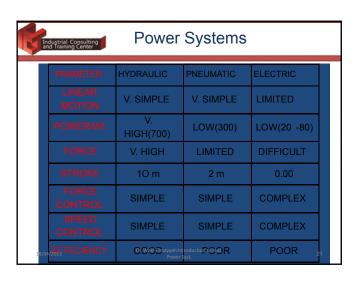
V		_
	Industrial Consulting and Training Center	

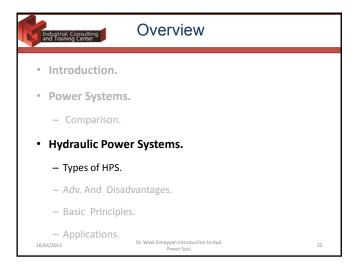
## Overview

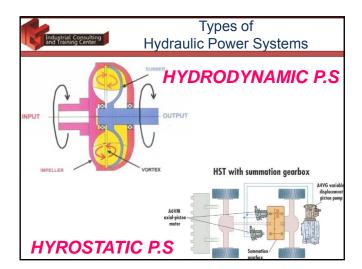
- Introduction.
- Power Systems.
  - Comparison of Power Systems.
- Hydraulic Power Systems.
  - Types of HPS.
  - Adv. And Disadvantages.
  - Basic Principles.
  - Applications.

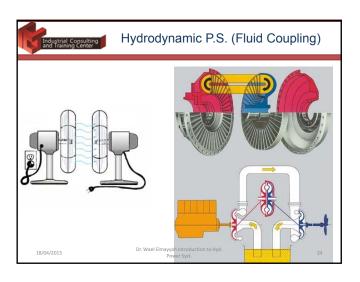
Dr. Wael Elmayyah Introduction

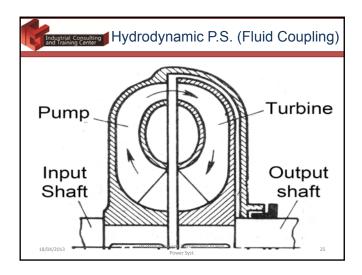
## Comparison (Energy) Industrial Consulting and Training Center PARAMETER HYDRAULIC **PNEUMATIC ELECTRIC** LIMITED, LIMITED, LARGE, TRANSIM. **SLOW SLOW** FAST, **DISTANCE** 100 m 1000 m **UNLIMITED SPEED** 2-6 m/s 5-10 m/s 30000km/s **STORAGE** LIMITED **SIMPLE DIFFUCULT COST** HIGH V. HIGH LOW

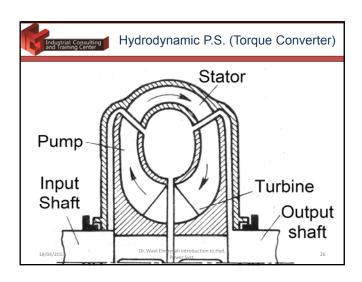


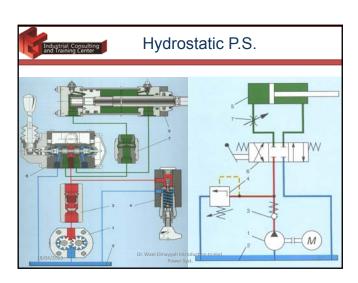


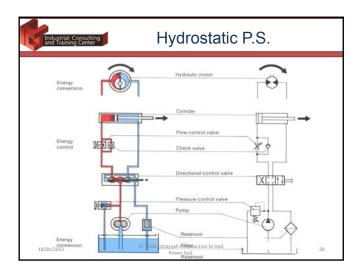


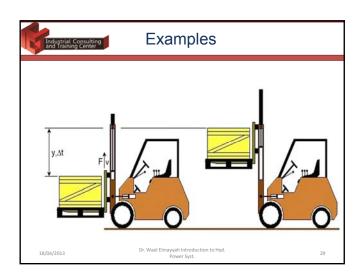


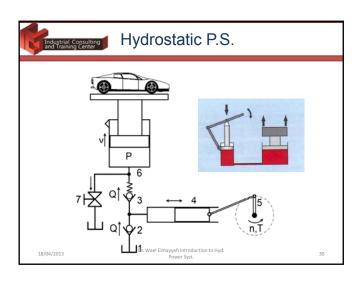


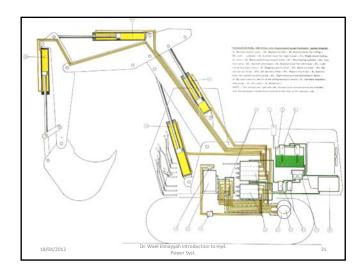


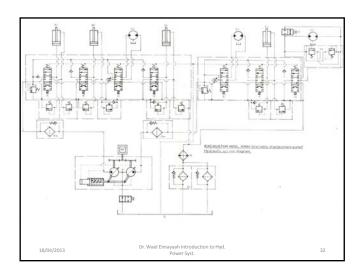


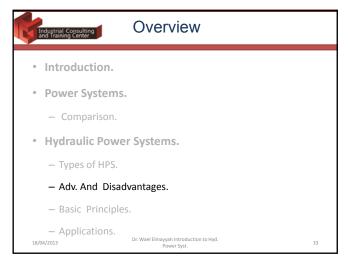




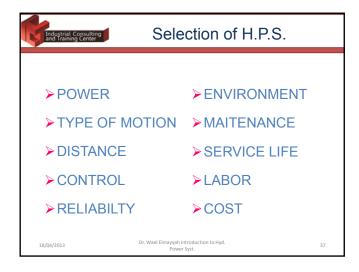


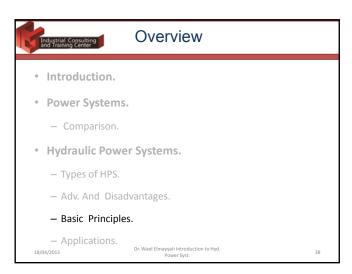


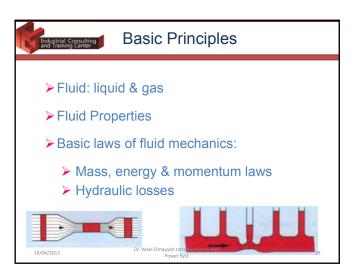


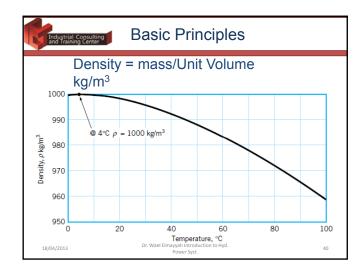


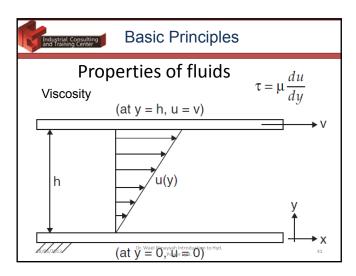
Industrial Consulting AD	VANTAGES OF H.P	S.
➤ HIGH POWER	MEICHT	
<ul><li>HIGH POWER</li><li>HIGH TORQUI</li></ul>		
> SELF-LUBRIC		
	ION PHENOMENA	
> HIGH STIFFNI		
7 HIGH OTH TW		
	VANTAGES OF H.P.	C
and training Center	VANTAGES OF TI.F.	<b>3</b> .
> OVER LOAD PR	ROTECTION	
> FLEXIBILITY		
> LINEAR OR RO	TARY MOTION	
> MATCHED WIT	H ANY CONTROL SYS	STEM
SIMPLE INSTAL	LLATION	
Industrial Consulting DIS	ADVANTAGES OF H	I.P.S.
and Training Center		_
>POWER GENE	ERATION IN SITE	
►ENVIRONMEN	ITAL EFFECTS	
FIRE HAZARD		
SYNCHRONIZ	ATION	
FILTERATION		
> COST 18/04/2013 Dr.	. Wael Elmayyah Introduction to Hyd. Power Syst.	36

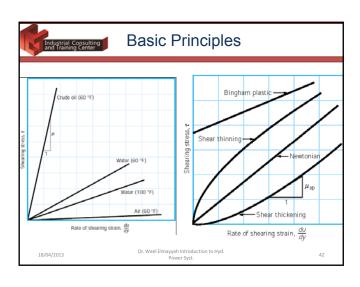


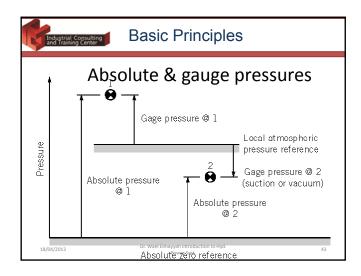


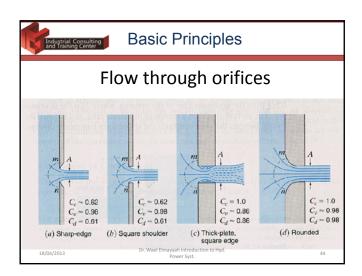


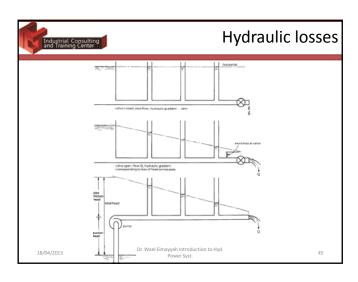


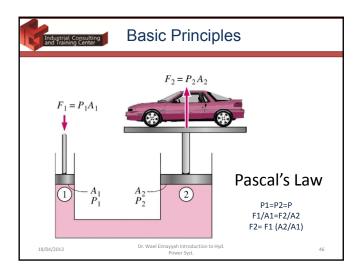


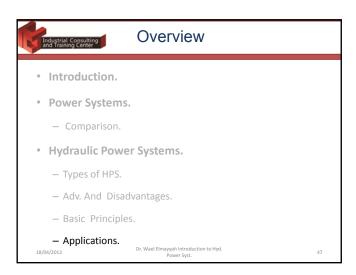


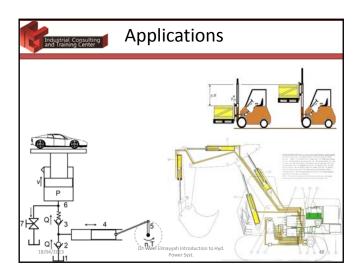






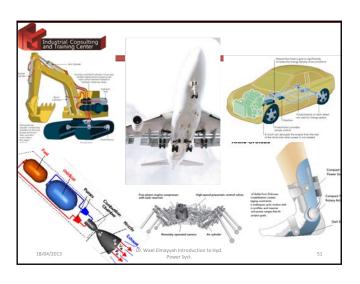












Applications  Applications	
>MILITARY: TANKS, AIRCRAFT,	
➤INDUSTRIAL: ROLLING, TOOLS,	
> EARTH MOVING EQUIPMENTS	
>MARINE USES	
➤ MOBILES	
>MEDICAL USES	
PETROL ENGINEERS NOT WAS LETTER TO Hyd.	52

