

Seminar Evaluation Results
Electrohydraulics Components and Systems
10/8/2018 - 10/12/2018
Medhat Khalil
Instructor

	#	Lowest	Highest	Average
Content	10	5.0	5.0	5.0
Technical Level	10	4.0	5.0	4.9
Delivery	10	4.0	5.0	4.9
Time devoted to topics was adequate	10	3.0	5.0	4.6
Allowed opportunity for interaction	10	3.0	5.0	4.7

Did any part of presentation stand out	The diagram slides were very informative (1)
	I was impressed that he would stick around with us to make sure everyone understands the lab content, even when it was taking us a while to finish lab. (2)
	Breaking up lecture with labs to demonstrate what was talked about in lecture (3)
	Dr. Khalil's knowledge is impressive. You can see he enjoys teaching. (4)
	I liked PID, spool design (5)
	Chapter 3,5 and 6 were very well presented and represent the core of this seminar. Presenter had excellent engagement with the attendees. (6)
	Have the students do some of the programing itself on the trainersto expose us to the software behing running the hydraulics (7)
	The presentation is very clear to follow (8)
	Most of them were excellently presented (9)
	Nice mix of lab, video and lecture material (10)
What improvements could be made	Maybe some "real world" examples (1)
	Supply lab coats or tell people to wear clothes that they do not mind getting hydraulic oil on (2)
	na. Enjoyed working with the trainers. (4)
	More time on design of different circuits. (5)
	I enjoyed the sections on comparing the needs for servo/proportional/etc valves and where you should use each (6)
	I think it will be nice to have more lab (8)
	Friday should be stretched to a full day. Reading material should be provided prior to first class on chapterscovered in the first day. (10)

Please Note - numbers in parentheses pertain to number assigned to participant response

Monday, October 15, 2018

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Seminar				
	#	Lowest	Highest	Average
Purpose and goals were outlined	9	5.0	5.0	5.0
Value of information presented	9	4.0	5.0	4.9
Extent to which information met your needs	9	3.0	5.0	4.3
Laboratories helped explain lecture	9	4.0	5.0	4.9
Would recommend this course to others	9	5.0	5.0	5.0
Would participate in future programs	9	5.0	5.0	5.0
Overall Rating⁴	9	5.0	5.0	5.0

Skills or techniques gained	Understanding of coils, proportional valves and driver cards. (1)
	I understand how electro-hydraulic components work (2)
	Learned about which valves to use in certain applications and how to set them up and program them (3)
	Much more thorough understandin of valve operation and application for various tasks (4)
	Better understanding of spool design (5)
	How are valves selected. Better understanding of how these valves and systems work. (6)
	How to read logic ladders and truth tables (7)
	How to understand electronics tied in to the hydraulics and how to apply schematics to real world (8)
	A better understanding of electrohydraulics, as well as things to consider when applying electrohydraulic components. (9)
What part was least beneficial	none (1)
	(2)
	It was all beneficial (3)
	I found all parts of the seminar beneficaill (4)
	Some of the earlier chapters (5)
	n/a. Enjoyed and took a lot out of the seminar. (6)
	Going over how to select servo valves based on manufacturing info and on how it's being used in a system application. (7)
	Servos. My company doesn't offer this technology, but it is still good for me to know. (8)
	All parts were beneficial (9)
What improvements could be made	Full day on Friday (1)
	More lab (2)
	Have the students set up some of the programing logic in the labs (3)

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What improvements could be made	Hydraulic/electric schematics should be printed larger in order to be easier to read. There are many details contained in these schematics which are difficult to read in the workbook and the lab manual (4)
	More emphasis on circuit design (5)
	n/a (6)
	(7)
	Separated servos from proportionals if possible, but I don't think it's necessary. (8)
	I don't have an engineering background, so more emphasis on reading electrical schematics would help. (9)
Other topics	Proportional valve section (1)
	Hydraulic modeling (2)
	Cleanliness and filtration (3)
	Contamination/filtration (4)
	Natural f of systems (5)
	n/a (6)
	Fluid contamination (7)
	More hands on. (8)

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