

EE 390: Summer Training

<i>COURSE TITLE</i>	<i>ENGLISH CODE/NO</i>	<i>ARABIC CODE/NO.</i>	<i>CREDITS</i>			
			<i>Th.</i>	<i>Pr.</i>	<i>Tr.</i>	<i>Total</i>
Summer Training	EE 390	٣٩٠ هـ ك	-	-	40	2
<i>Pre-requisites:</i>	Passing 120 Credits of the Student's Plan + Any Additional Departmental Prerequisites					
<i>Course Role in Curriculum</i>	<i>Required or Elective:</i>		Required for the conventional program			
	<i>A pre-requisite for:</i>		-			
<i>Catalogue Description:</i> 10 weeks of supervised hands-on work experience at a recognized firm in a capacity which ensures that the student applies his engineering knowledge and acquires professional experience in his field of study at KAU. The student is required to communicate, clearly and concisely, training details and gained experience both orally and in writing. The student is evaluated based on his abilities to perform professionally, demonstrate technical competence, work efficiently, and to remain business focused, quality oriented, and committed to personal professional development.						

Textbooks:

None

Supplemental Materials:

None

Course Learning Outcomes:*By the completion of the course the student should be able to:*

1. Formulate an objective statement that identifies the purpose of the training and describes the expected outcomes of the training activity.
2. Describe briefly a professional work environment by identifying its organizational structure, production units, quality system, and its place on the market.
3. Exhibit integrity, punctuality, and ethical behavior in engineering practice and relationships.
4. Establish successful relationships with team members, advisors, and clients.
5. Maintain focus to complete important tasks on time and with high quality.
6. Relate practical work to previous knowledge from basic sciences, engineering fundamentals, and discipline related courses.
7. Collect and review related data such as technical information, regulations, standards, and operational experiences from credible literature resources.
8. Monitor achievement, identify causes of problems, and revise processes to enhance satisfaction.
9. Communicate, clearly and concisely, training details and gained experience, both orally and in writing, using necessary supporting material, to achieve desired understanding and impact

Topics to be Covered:

**Duration
in Weeks**

- | | | |
|----|---|---|
| 1. | Acquainting the trainee by the company, its work environment, organizational structure, products, costumers, engineering units, and quality system. | 1 |
| 2. | Familiarizing the trainee of one production or design unit with deep understanding of the work environment, regulations, standards, etc... | 1 |
| 3. | Allocating the trainee to a project team and allowing him to study and collect necessary data about the project using internal and external data sources. | 1 |
| 4. | Working as a team member to execute assigned tasks with the following objectives: <ul style="list-style-type: none"> • Apply engineering practices related to his specialization. • Enhance team work skills. • Relate practical work to his engineering knowledge. • Use modern engineering tools such as equipment and computer software. • Use project management techniques. • Develop personal communication skills. | 7 |

Grading System

Assessment Tool	Percentage of the Total Grade	Passing Grade	Action if Not Passed
Company Evaluation Form	25%	15%	Repeat the training
Rubric of the Final Report	50%	30%	Resubmit the report
Oral Presentation Rubric	25%	15%	Repeat the presentation

Student Outcomes addressed by the course: (Put a x sign)

(a) an ability to apply knowledge of mathematics, science, and engineering	
(b) an ability to design and conduct experiments, as well as to analyze and interpret data	
(c) an ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability	
(d) an ability to function on multidisciplinary teams	x
(e) an ability to identify, formulate, and solve engineering problems	
(f) an understanding of professional and ethical responsibility	x
(g) an ability to communicate effectively	x
(h) the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context	
(i) a recognition of the need for, and an ability to engage in life-long learning	
(j) a knowledge of contemporary issues	
(k) an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.	

Key Student Outcomes assessed in the course: (f) and (g)

Instructor or course coordinator: Dr. Ali H. Morfeq
Last updated: September 2013.