



FACULTY OF ENGINEERING AND TECHNOLOGY

CHEMICAL ENGINEERING

WORK BASED LEARNING (WBL)

EHEXL1A

EVALUATION FORM

STUDENT INITIALS & SURNAME	
---------------------------------------	--

CONTACT NUMBER	
EMAIL ADDRESS	

STUDENT NUMBER	
CAMPUS	

TRAINING PERIOD	FROM		TO	
------------------------	-------------	--	-----------	--

COMPANY DETAILS & PHYSICAL ADDRESS	

TYPE OF PLACEMENT TO BE COMPLETED BY LEARNER AND MENTOR

Based on the student's work activities, which of these provide the best description of the nature of the In-service training placement. You may select more than one (1) option. Please use the space provided for additional options that are not in the list.

Placement Description	Selection [0 or 1]
Operational –Industrial chemical Process Plant Operator/ Technician	
Operational –Industrial Metallurgical Process Plant Operator/ Process Plant trainee	
Operational –Industrial chemical Process Plant Operator	
Operational –Industrial Manufacturing Process Plant Operator/ Technician	
Operational –Industrial Process Plant Maintenance	
Operational –Pilot Plant Operator	
Operational –Manual Labour	
Laboratory –Analytical Chemistry (Analyzing Chemical Samples)	
Engineering Design- Process Design Calculations and Activities	
Project Engineering- Project Initiation, Execution and Management	
Other- If none of the above is applicable, please give a short description	

Table 1: Tasks for work based learning

Tasks	Completed	Unavailable	Exit Level Outcomes
Safety, Health and Environmental Responsibility Training			1, 2, 5, 9
<ul style="list-style-type: none"> General Process Safety Elements (Recognition, Prevention, Mitigation, Response) 			
<ul style="list-style-type: none"> Occupational Health and Safety 			
Company Background			
Project Allocation			1, 2, 5, 9
<ul style="list-style-type: none"> Introduction 			
<ul style="list-style-type: none"> Literature review 			
<ul style="list-style-type: none"> Methodology 			
<ul style="list-style-type: none"> Results and discussion 			
<ul style="list-style-type: none"> Conclusion 			
<ul style="list-style-type: none"> References 			

Process Plant Operation			1, 2, 5, 9
• Determination of power requirements for pumps, mixers and similar equipment			
• Design analysis			
• Chemical/Metallurgical work in research and development			
• Hazop studies			
• Optimization of processes			
• Control of feed or product loss			
• Methods of detecting feed or product loss			
• Toxicity arising from effluents			
• Details Material and Energy balances and Process utilities			
• Quality audits/ quality assurance			
Process Chemical Analysis			1, 2, 5, 9
• Sample Preparation, Analysis Routines, Results Interpretation and Reporting			
Business Administration and Management			8
• Human resources (Shift Supervision and Management)			
• Economics and Financial Analysis and Management (Financial Projects, ROI Calculations)			

Explanation of the evaluation scale:



EVALUATION REPORT (To be completed by mentor/supervisor)

ELEMENT	EVALUATION MARK (%) (see previous page)	SIGNATURE (mentor/supervisor)
1. Dexterity		
2. Knowledge of techniques, procedures and materials		
3. Safety awareness		
4. Willingness to learn new skills		
5. Initiative		
6. Human relations		
7. Attitude		
8. Efficiency as employee/standard of work		
9. Neatness		
10. Proficiency		

FINAL MARK:

.....%

TO BE COMPLETED BY THE MENTOR

REMARKS ON THE STUDENT'S PROFESSIONAL GROWTH AND DEVELOPMENT

It is hereby declared that the information contained in this document is correct and that the student has done the prescribed training for the period indicated.

NAME

DESIGNATION

QUALIFICATION

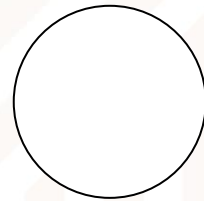
SIGNATURE

DATE

ECSA REGISTRATION CATEGORY

(Pr Eng. or Pr Tech (Eng.) or Reg Eng. Tech.)

ECSA REGISTRATION NUMBER



OFFICIAL STAMP

EVALUATION BY MENTOR/SUPERVISOR

.....%

UNIVERSITY USE ONLY:

EVALUATION BY UNIVERSITY/MODERATOR

.....%

REMARKS:

.....

.....

.....

.....

FINAL MARK:

.....%

.....
WIL COORDINATOR

.....
DATE

ECSA REGISTRATION OF WIL COORDINATOR:

(Pr Eng. or Pr Tech (Eng.) or Reg Eng. Tech.)

ECSA REGISTRATION NUMBER