



Field Experience Specification

Course Title : **Training**

Course Code **ICEM 471**

Program: **Chemistry**

Department: : **Chemistry**

College: **Science**

Institution: : **Majmaah University**

Field Experience Version Number: **TP- 155**

Last Revision Date **14/12/2024**



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A. Field Experience Details:

1. Credit hours: (3 hours).

2. Level/year at which Field Experience is offered: (8th level) four year

3. Time allocated for Field Experience activities

12 weeks (Weeks)

(3) Days/ week

(6) Hours/day

4. Corequisite (or prerequisites if any) to join Field Experience

The student should have completed 126 hours before to joining the Field Experience

5. Mode of delivery

In-person/onsite

hybrid (onsite/online)

Online

B. Field Experience Course Learning Outcomes (CLOs), Training Activities and Assessment Methods

Code	Learning Outcomes	Aligned PLO Code	Training Activities	Assessment Methods	Assessment Responsibility
1.0	Knowledge and understanding				
1.1	Recognize to apply the concepts and principles of chemistry acquired from the courses in the internship site	K1	-Apply the theoretical study in a work setting - Implementing tasks in the field of work according to previous knowledge - The ability to analyze according to acquired knowledge	-Field Supervisor Evaluation Rubric - evaluation weekly report includes the work done during the week -Assessment the final report presentation and demeanor	-Field Supervisor -Tainting committee Rubric
1.2	Explain Chemical Reactions and Stoichiometry concepts to problems involving mass, moles, and solution molarit	K3			
2.0	Skills				



Code	Learning Outcomes	Aligned PLO Code	Training Activities	Assessment Methods	Assessment Responsibility
2.1	Perform the Laboratory experiments using the right scientific methods and proper safety procedures.	S1	applications and using appropriate techniques/tools Develop appropriate communicative spoken and written skills Use of scientific skills, and modern tools and technology work with technical competence in carrying out assigned tasks	-Field Supervisor evaluation Rubric - Evaluation weekly report includes the work done during the week -Assessment the final report -presentation and demeanor	Field Supervisor summer training committee
2.2	Communicate effectively orally and written using appropriate presentation formats for different issues with recipients of different types.	S2			
2.3	Demonstrate the ability to use modern technology and statistical applications that are used in the various fields of chemistry.	S3			
2.4	Solve chemical problems related to different applications of chemistry through critical thinking to develop appropriate				





Code	Learning Outcomes	Aligned PLO Code	Training Activities	Assessment Methods	Assessment Responsibility
	rational, explanations, and answers				
3.0					
3.1	Apply standards of integrity, transparency, and ethical behavior in various Academic and professional fields	V1	Ability to listen and cooperate with others, share information, and reconcile differences. performance with professional ethical in a work environment	Field Supervisor evaluation Rubric - Evaluation weekly report includes the work done during the week -Assessment the final report -presentation and demeanor	Field Supervisor summer training committee
3.2	Demonstrate the ability to work independently and with groups.	V2			
3.3	Self-development, assess own learning and performance and autonomously make decisions regarding self-development and/or tasks based on convincing evidence.	V3			

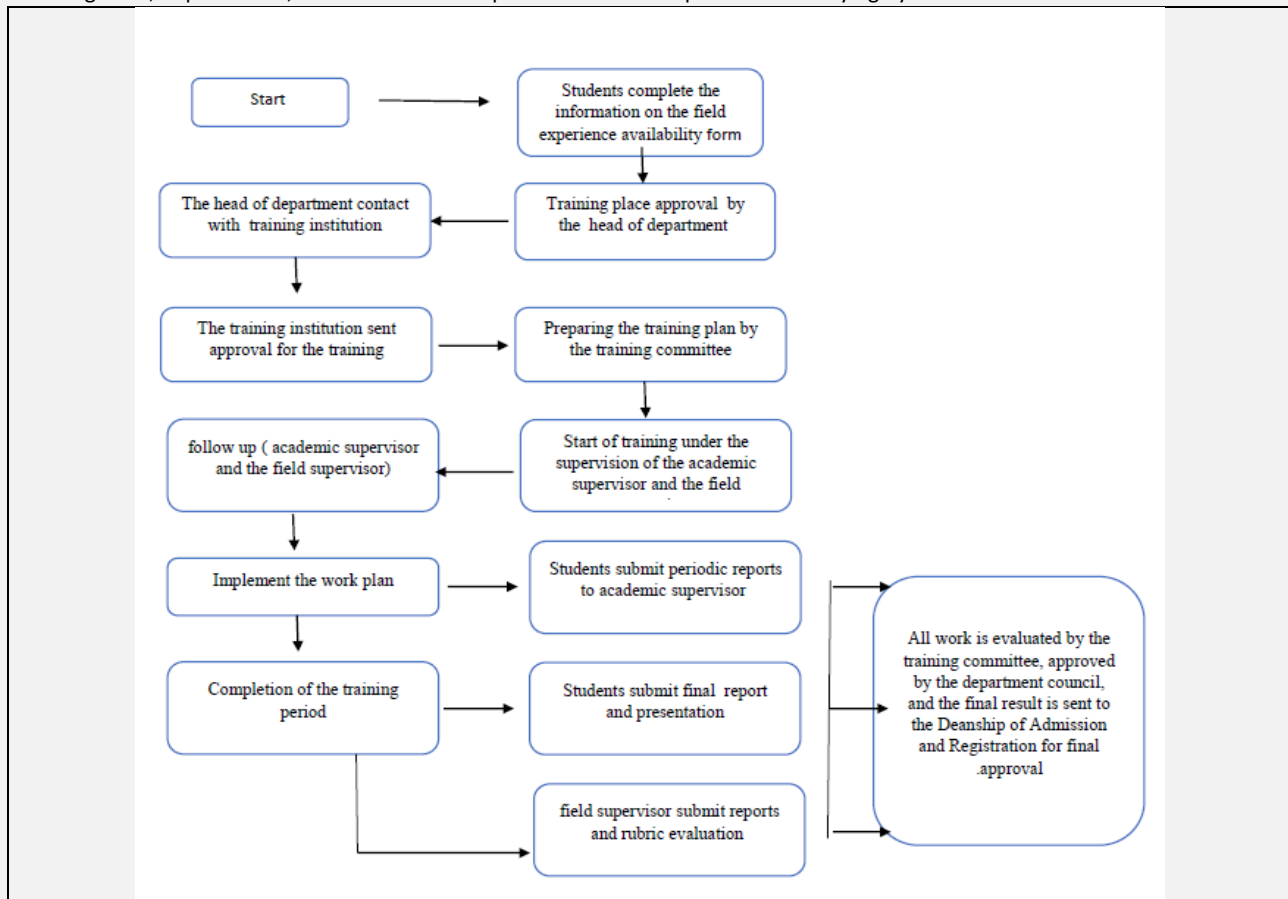
*Assessment methods (i.e., practical test, field report, oral test, presentation, group project, essay, etc.).



C. Field Experience Administration

1. Field Experience Flowchart for Responsibility

Including units, departments, and committees responsible for field experience identifying by the interrelations.



2. Distribution of Responsibilities for Field Experience Activities

Activities	Department or College	Teaching Staff	Student	Training Organization	Field Supervisor
Selection of a field experience site	✓				
Selection of supervisory staff	✓				
Provision of the required equipment				✓	
Provision of learning resources				✓	
Ensuring the safety of the site				✓	
Commuting to and from the field experience site			✓		
Provision of support and guidance		✓			✓
Implementation of training activities		✓		✓	✓





Activities	Department or College	Teaching Staff	Student	Training Organization	Field Supervisor
(duties, reports, projects ...)					
Follow up on student training activities		✓		✓	✓
Monitoring attendance and leave		✓			✓
Assessment of learning outcomes	✓	✓			
Evaluating the quality of field experience	✓				
Others (specify)					

3. Field Experience Location Requirements

Suggested Field Experience Locations	General Requirements*	Special Requirements**
Oil and petrochemical companies	-Modern instrument -Equipment -Laboratory safety glasses -The laboratory manual -Basic Laboratory Techniques	None
Drinking water companies		
Pharmaceutical factories		
- Plastic factories.		
-Analysis Labs		
Medical laboratories in government hospitals		
Specifications, Metrology and Calibration Researchers Jobs		
<ul style="list-style-type: none"> Laboratory researchers and technicians' jobs Laboratory Analyst Jobs 		
Chemical technician in both educational and industrial organizations		
<ul style="list-style-type: none"> Chemist in toxicology, quality management and health laboratories Water quality chemist 		

*E.g. provides information technology, equipment, laboratories, halls, housing, learning sources, clinics ... etc.

** E.g. Criteria of the institution offering the training or those related to the specialization, such as safety standards, dealing with patients in medical specialties ... etc.

4. Decision-Making Procedures for Identifying Appropriate Locations for Field Experience

- The Field experience workplace should be approved by head of department considering the suggestions from the summer training committee





- The Field experience workplace must be relevant to the student area of study.
- The work plan should be aligned with the student area of study. It should not be office desk job.
- The Field experience workplace should be following the governmental rules and regulation for employees.
- The training place should have standard working hours.

5. Safety and Risk Management

Potential Risks	Safety Actions	Risk Management Procedures
Expose to Some of the hazardous chemicals that are produced at an industrial level	Risk assessment Minimize the Risks of the Hazards The chemical inventory management system assist in minimizing laboratory hazards.	Provide appropriate laboratory safety instruction to students, including explaining the health hazards and risks associated with each experiment. Follow appropriate safety and Personal protective equipment protocols during laboratory activities,
Fire and fire alarm	The presence of fire extinguishers	The presence of fire extinguishers Building Strong Safety Cultures

D. Training Quality Evaluation

Evaluation Areas/Issues	Evaluators	Evaluation Methods
Student Assessment for the training	Student	Questionnaire
Tracking the students' progress and grades.	Academic Supervisor	Evaluation of all summer training work
Evaluating Student Performance during Training	Field Supervisor	Rubric
Students' general standard in the course based on their scores.	summer training committee	Evaluation of all summer training work
Measuring learning outcomes	Quality assurance unit	Excel form to measure learning outcomes



Evaluation areas (e.g., Effectiveness of Training and assessment, Extent of achievement of course learning outcomes, Quality of learning resources, etc.)

Evaluators (Students, Supervisory Staff, Program Leaders, Peer Reviewer, Others (specify))

Assessment Methods (Direct, Indirect)

E. Specification Approval Data

Council /Committee	Chemistry Department Council	
Reference No.	17	
Date	15/6/1446	16/12/2024

