Field Experience Specification

Course Title:	Field Training in Biochemistry
Course Code:	**BCH 496**
Program:	**B.Sc.**
Department:	**Biochemistry**
College:	**Sciences**
Institution:	**King Saud University**
Field Experience Version Number:	*Course Specification Version Number*
Last Revision Date:	*Pick Revision Date.*

Table of Contents

A. Field Experience Details:

1. Credit hours: (5).

2. Level/year at which Field Experience is offered: (8th level, 4th year).

3. Time allocated for Field Experience activities

| (14) Weeks | (28) Days | (70) Hours |

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

BCH 484/BCH 361/BCH 340

5. Mode of delivery

| ☐In-person/onsite | ☐hybrid (onsite/online) | ☐Online |

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

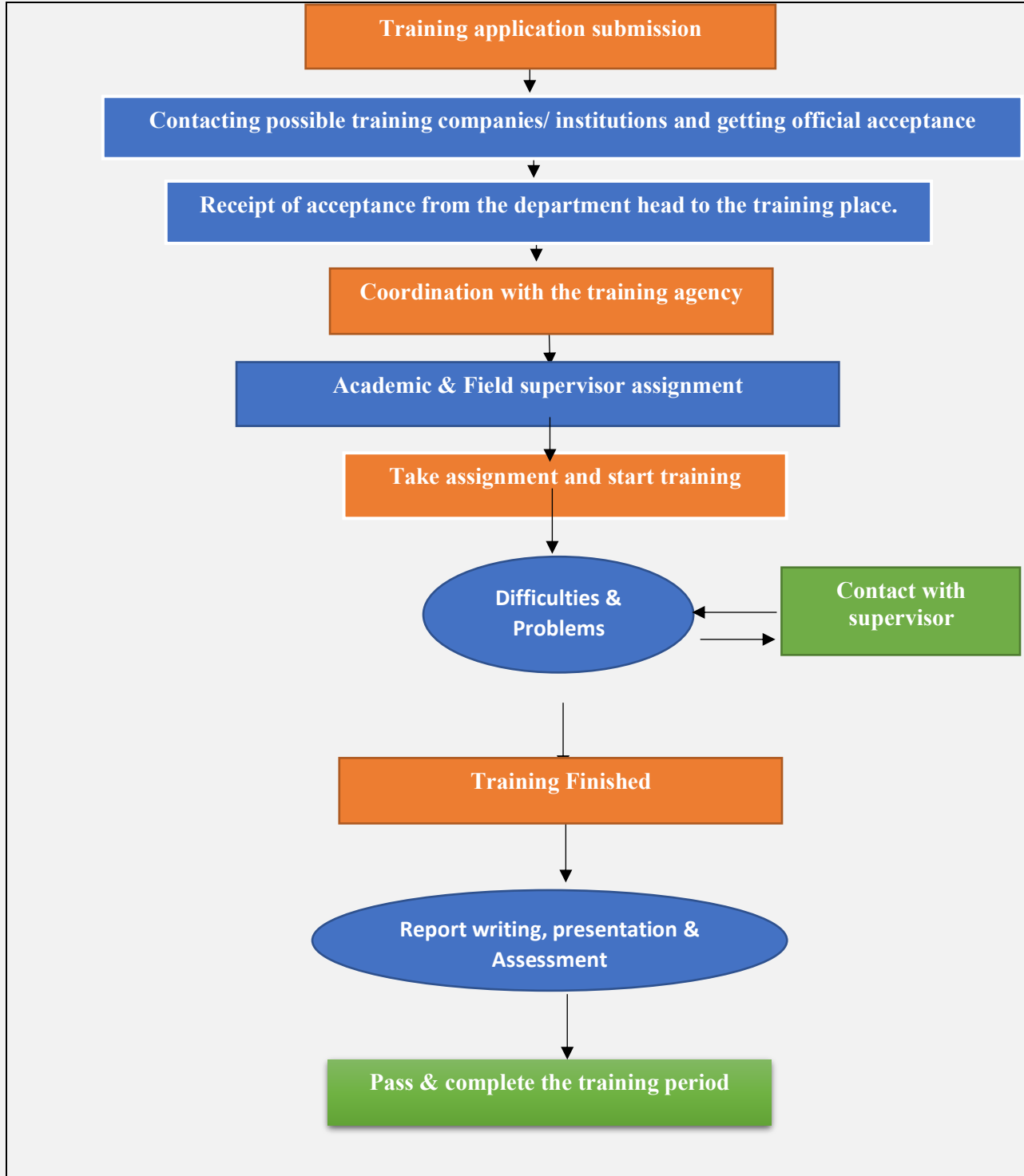| Code	Learning Outcomes	Aligned PLO Code	Training Activities	Assessment Methods	Assessment Responsibility
1.0	**Knowledge and understanding**				
1.1	- Recognize new techniques and their application and use in the field of clinical biochemistry	K5	- Lab project: adapt or apply new techniques to the project - Demonstrations and tutorials - Operate new technologies - problem solving skills - Data analysis Questions	- Work/In lab assessment - Reports - Supervisor observation - Meetings and Discussions with supervisor.	
2.0	**Skills**				
2.1	Design, analyze and examine biological samples	S3	learning to design experiments - Meetings and group discussions.	Report -Supervisor evaluation.	
2.2	Develop oral presentation, lab report	S4	- presentations and discussions -Discuss the issues in a realistic training environment.	-Discuss the gained skills in training in the final presentation	

Code	Learning Outcomes	Aligned PLO Code	Training Activities	Assessment Methods	Assessment Responsibility
3.0	Values, autonomy, and responsibility				
3.1	Develop global competence, work in group with self-confidence and to display leadership and entrepreneurship	V1	Team Work -Meetings with supervisor -Lab duties -Group Discussions -Concepts and Results presentation - Incorporating the use of computers in the course requirements - Assignments - Producing tables and figures Learn how to use new software and hardware	- Presentations - Report -Supervisor evaluation - Student self evaluations and peer evaluation	
3.2					
...					

*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.

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┌─────────────────────────────────────────────────────────────┐
│          Training application submission                     │
└─────────────────────────────────────────────────────────────┘
                          │
                          ▼
┌─────────────────────────────────────────────────────────────┐
│ Contacting possible training companies/ institutions and     │
│              getting official acceptance                     │
└─────────────────────────────────────────────────────────────┘
                          │
                          ▼
┌─────────────────────────────────────────────────────────────┐
│ Receipt of acceptance from the department head to the        │
│                    training place.                           │
└─────────────────────────────────────────────────────────────┘
                          │
                          ▼
┌─────────────────────────────────────────────────────────────┐
│            Coordination with the training agency             │
└─────────────────────────────────────────────────────────────┘
                          │
                          ▼
┌─────────────────────────────────────────────────────────────┐
│            Academic & Field supervisor assignment            │
└─────────────────────────────────────────────────────────────┘
                          │
                          ▼
┌─────────────────────────────────────────────────────────────┐
│            Take assignment and start training                │
└─────────────────────────────────────────────────────────────┘
                          │
                          ▼
       ( Difficulties & Problems ) ◄──►  [ Contact with supervisor ]
                          │
                          ▼
┌─────────────────────────────────────────────────────────────┐
│                     Training Finished                        │
└─────────────────────────────────────────────────────────────┘
                          │
                          ▼
       ( Report writing, presentation & Assessment )
                          │
                          ▼
       [ Pass & complete the training period ]
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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 (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**

King Khalid University Hospital, College of Medicine, King Saud University, Riyadh	- Professional Training Program
	- Equipped infrastructure and resources
	- Qualified trainer
	- Previous experience in training
	     Safety standards
		-Staff member and technicians
		-Modern and advanced Equipment
		   Availability of vaccination and checkup for the trainees

King Abdul Aziz Hospital, College of Medicine, King Saud University, Riyadh		
Saudi Food and Drug Authority (FDA), Riyadh		
King Faisal Specialist Hospital & Research Centre, Riyadh		
Almarai Food Company		Biochemistry labs

*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

Ensure that the training institution is included in the lists of fields of work for the graduate of biochemistry
Ensure that the training institution has previous experience in training
Training institution capacity and Laboratory equipped with the technologies and required facilities
Variety of training institutions to meet student's desires as possible.
The field training organization has a good training program for the students
Official acceptance (Signed letter) from the responsible person in the training institution specifying the acceptance of training a determined number of students and the duration.

5. Safety and Risk Management

Potential Risks	Safety Actions	Risk Management Procedures
The expulsion of training without compelling reasons	Contract an agreement with the company.	Select companies with an agreement in advance.
Injury the trainee during training	Contract an agreement with the company.	Select companies with an agreement in advance.
Infection	Contract an agreement with the company.	

D. Training Quality Evaluation

Evaluation Areas/Issues	Evaluators	Evaluation Methods
Effectiveness of Training and assessment	Academic supervisor	Correcting report Filling evaluation formats Judging oral presentation Marking the attendance and participation Correcting quizzes Evaluating the student oral presentation etc
Extent of achievement of course learning outcomes	Field training supervisor Academic supervisor	
Quality of learning resources	Academic supervisor	

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	Accreditation committee
Reference No.	Session number 5 (academic year 20/21)

Date	11 Feb 2021