

## The first intake is planned for July 2023

- The European Technical H&I Qualification (ETHIQ Diploma) is an online, Moodle based training course for technologists working in EFI accredited labs.
- Come and join us at the launch meeting to find out more about the training course



## What is the ETHIQ Diploma?

## **ETHIQ - Introduction & process**

Dashboard / My courses / ETHIQ - Introduction & process

Background

Training info

**Online Training** 

Individual learning and development events

Case Study / Validation Report

**Final Assessment** 

## <u>Training info</u>

The ETHIQ Training comprises four elements;

1. Online ETHIQ Training

2. A summary of individual learning and development events 3. A basic case or validation report

4. Final Assessment

 The European Technical H&I Qualification (ETHIQ Diploma) is an online, Moodle based training course for technologists working in EFI accredited labs.

Evidence of training



The Education Committee circulated a questionnaire to EFI Laboratories to gather feedback regarding a number of aspects of the ETHIQ Diploma training.

The main points from the questionnaire are summarised below:

- > Feedback from questionnaire was positive
- > Most laboratories would plan to register eligible candidates gradually
- > A webinar for trainees and training supervisors would be welcomed
- Translation of the logbook would be welcome in some countries cannot determine which from questionnaire?
- > The cost of 200-250 euros would be prohibitive for some laboratories
- > The need for candidates to be EFI members would be challenging for some laboratories



- There will be two dates for registration each year, initially with a maximum of 20 registrants at each intake.
- Registration will be on the basis of the first 20 complete applications received
- The first planned intake in 2023 will be: Registration deadline 1<sup>st</sup> July
- Subsequent registration deadlines each year will be:
  - 1<sup>st</sup> January
  - 1<sup>st</sup> July



 Following feedback from EFI labs, the following proposal regarding cost and the requirement to be an EFI member has been approved by the EC

 Keep the cost at 200 euros for registration but to include EFI membership for the period while the candidate is undertaking the ETHIQ Diploma training.



## **ETHIQ Diploma Background**

#### Background

Training info

Notes for Supervisors

#### **Background**

The ETHIQ Diploma is managed and administered by the EFI Education Committee. The purpose of the training is to enable technical staff working in H&I to demonstrate knowledge and competence within their workplace. All registrants for the ETHIQ certificate must be EFI members.

Training is aimed at all Technical Staff working in EFI accredited laboratories supporting clinical solid organ and/or haematopoietic stem cell transplantation. The definition of Technical Staff may vary between countries, but it is hoped that the ETHIQ will be an appropriate training scheme for staff that are involved in bench work in H&I labs, but who may not have the responsibility for final reporting of results. Senior staff (e.g. those who are Directors or co-Directors or those who wish to reach this level) are encouraged to develop their learning in order to take the EFI/UEMS ESHI Diploma.

The training is undertaken within the trainee's laboratory and will be delivered under the supervision of a local training supervisor over the course of 12-36 months. The training supervisor must be an individual who is a Director or Co-Director of an EFI accredited lab, or is a holder of the ESHI Diploma (honorary or by examination). It is also important that the Head of Laboratory (if different to the Training Supervisor) signs the application form (Appendix A) to show they are supportive of the trainee's application.

- Aimed at technologists involved in bench work in H&I labs but may not have the responsibility for final reporting of results
- Training is undertaken within the trainees own lab
- Under supervision of a local training supervisor
- Expected to take 12 36 months



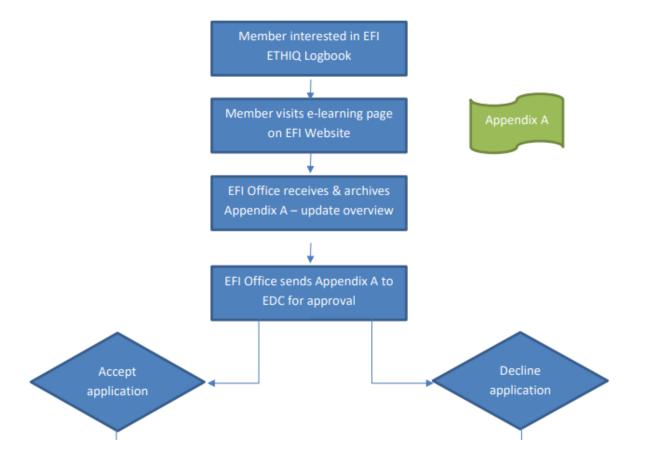
## For Supervisors

## **ETHIQ - Introduction & process**

Dashboard / My courses / ETHIQ - Introduction & process

<ul> <li>Background</li> <li>Training info</li> <li>Notes for Supervisor must be an individual who is a Director or Co-Director of an EFI accredited lab, or is a holder of the ESHI Diploma (honorary or by examination)</li> <li>The Director of the H&amp;I laboratory must also sign the application form (if different to the trainee supervisor) to show they are supportive of the trainee undertaking the ETHIQ</li> <li>The Training Supervisor must sign off all training manual evidence provided or delegate to an appropriate individual in the laboratory</li> <li>The Training Supervisor must sign off the reflective learning activities</li> <li>The Training Supervisor must sign off the case study/validation report as being satisfactory (use the Assessment of Case Study / Validation report form in Appendix H)</li> </ul>		
<ul> <li>Director of an EFI accredited lab, or is a holder of the ESHI Diploma (honorary or by examination)</li> <li>2. The Director of the H&amp;I laboratory must also sign the application form (if different to the trainee supervisor) to show they are supportive of the trainee undertaking the ETHIQ</li> <li>3. The Training Supervisor must sign off all training manual evidence provided or delegate to an appropriate individual in the laboratory</li> <li>4. The Training Supervisor must sign off the reflective learning activities</li> <li>5. The Training Supervisor must sign off the case study/validation report as being satisfactory (use the Assessment of Case Study / Validation report</li> </ul>	Background	Notes for Supervisors
Notes for Supervisors       >         Supervisors       (honorary or by examination)         2. The Director of the H&I laboratory must also sign the application form (if different to the trainee supervisor) to show they are supportive of the trainee undertaking the ETHIQ         3. The Training Supervisor must sign off all training manual evidence provided or delegate to an appropriate individual in the laboratory         4. The Training Supervisor must sign off the reflective learning activities         5. The Training Supervisor must sign off the case study/validation report as being satisfactory (use the Assessment of Case Study / Validation report	Training info	
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## **Application Form**



ETHIQ LOGBOOK APPENDIX A

Page 1 of 4

#### EFI ETHIQ LOGBOOK APPLICATION FOR REGISTRATION

TRAINEE INFORMATION				
Surname	Click or tap here to	Forename	Click or tap here to enter	
	enter text.		text.	
Job title	Click or tap here to enter	text.		
EFI Member	□ Yes, membership numbe	er: Click or tap here to enter t	ext.	
	No, I will become an EFI	member via the website: www.	efi-web.org	
Start date in current lab	Click or tap here to enter text.			
Laboratory / institution details				
Name of lab / institution: Click of	r tap here to enter text.			
Postal/Zip code: Click or tap here to enter text.				
City: Click or tap here to enter text.				
Country: Click or tap here to er	iter text.			
Telephone	Click or tap here to enter text.			
Email	Click or tap here to enter text.			
Signature of Trainee		Date	Click or tap here to enter	
			text.	

PROPOSED H&I TRAINING SUPERVISOR Note: The training supervisor must be a Director or Co-Director of an EFI accredited lab, and/or a holder of the ESHI Diploma				
(honorary or by examination)				
Click or tap here to enter text.				
Current grade Click or tap here to enter text.				
or Date Click or tap he text.		Click or tap here to enter		
	st be a Director or Co-Directo Click or tap here to enter Click or tap here to enter	st be a Director or Co-Director of an EFI accredited lab, and/or Click or tap here to enter text. Click or tap here to enter text.		

Indication of the planning to co	Completion in Click or tap here to enter text. Years		
Training start date	Click or tap here to Proposed completion date C		Click or tap here to enter text.



#### ETHIQ LOGBOOK APPENDIX A

Page 2 of 4

NAME OF HEAD OF DEPARTMENT					
The above Trainee's application for registration on the ETHIQ Training Scheme has the full support of the Head of Department					
and the training laboratory hold	and the training laboratory holds current EFI accreditation.				
Name	Click or tap here to enter text.				
Current grade	Current grade Click or tap here to enter text.				
Signature of Head of	ignature of Head of Date Click or tap here to enter				
Department text.					

Section A - Specialist H&I knowledge (A1-A2-A3 Mandatory; A4 Optional)				
A1.a Innate immune responses				
A1.b Adaptive immune responses				
A2 - The HLA System				
A2.a HLA genes				
A2.b HLA molecules				
A2.c HLA nomenclature and polymorphism				
A2.d Clinical relevance of the HLA system				
A3 - Transplant Immunology				
A3.a Allorecognition				
A3.b Rejection responses				
A3.c Graft versus Host Disease (GvHD)				
A4 - H&I laboratory role in transfusion Optional				



## **Application Form continued**



ETHIQ LOGBOOK APPENDIX A

Page 3 of 4



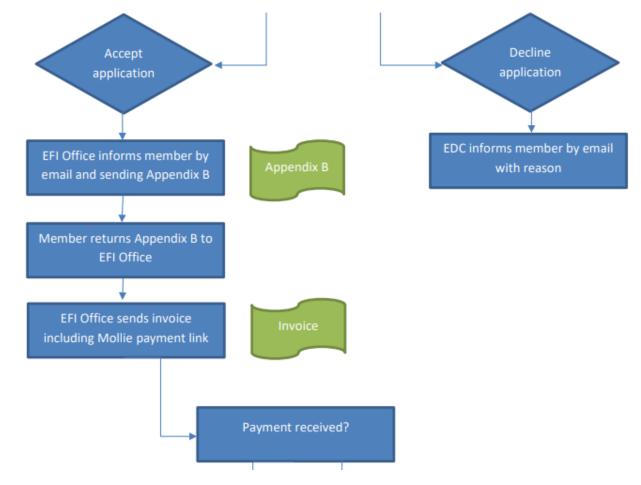
#### ETHIQ LOGBOOK APPENDIX A

Page 4 of 4

Section B - General competences					
	(Mandatory)				
B1 - General I	aboratory practice				
B1.a (	General laboratory practice				
B2 - Safe work	king practices in the clinical HLA laboratory				
B2.a l	Health and Safety				
B2.b	Dealing with potential hazards in the laboratory				
B2.cl	ncident / Accident reporting				
B2.d	Laboratory Equipment				
B3 - Quality m	nanagement				
B3.a (	Quality Management System				
B3.b	Quality Control				
B3.c (	Quality Assurance				
B4 - Data han	dling				
84.a l	Data handling				
B5 - Stock mai	intenance				
85.a l	Maintaining working stocks				
85.b	Receipt of stock deliveries				
B6 - Specimen	reception and handling				
B6.a S	Specimen reception				
B6.b	Logging specimens into Laboratory Information Management System (LIMS)				
B6.c \$	Specimen storage				

Section C - Specialist H&I competences (Optional)				
C1 - Sample processing				
C1.a - Separation of serum/plasma samples	$\checkmark$			
C1.b - Separation of lymphocytes from peripheral blood or tissues	✓			
C1.c - Freezing and thawing lymphocytes	1			
C1.d - Extraction of DNA	✓			
C2 - Serological competences				
C2.a - Lymphocytotoxicity assays				
C2.b - Flow cytometry crossmatching	$\checkmark$			
C2.c - Antibody identification and definition by solid phase assays				
C3 - Molecular competences				
C3.a - DNA contamination tests	✓			
C3.b - Definition and analysis of HLA gene polymorphism by gel based PCR-SSP	$\mathbf{V}$			
C3.c - Definition and analysis of HLA gene polymorphism by real time PCR	$\checkmark$			
C3.d - Definition and analysis of HLA gene polymorphism by PCR- SSO				
C3.e - Definition and analysis of HLA gene polymorphism by SBT: Sanger or NGS	$\checkmark$			
C3.f - Post-HSCT engraftment monitoring by STR (Short Tandem Repeats)				
C3.g - Post-HSCT engraftment monitoring by qPCR				







## Invoice and Payment

EUROPEAN FEDERATION FOR IMMUNOGENETICS INVOICE ETHIQ TRAINING Address: EFI Office – Administration Attn. Ingrid Abelman Poortgebouw (Noord) Kamer: N-00-002 Rijnsburgerweg 10 2333 ZA Leiden The Netherlands Email:education@efiweb.org



ETHIQ LOGBOOK APPENDIX B

Page 1 of 1

#### BANK INFORMATION FORM

for payment of

#### EFI Technical H&I Qualification (ETHIQ) training

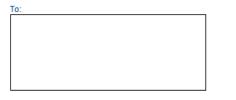
The total cost of registration is paid annually over the period of training. The minimum term of registration is 12 months and the maximum 36 months.

The registration fee covers the cost of the Training Manual and all the administrative costs of the Trainee's assessments.

PLEASE PROVIDE FULL DETAILS OF THE INDIVIDUAL TO WHOM THE INVOICES FOR REGISTRATION CHARGES SHOULD BE SENT

INFORMATION INVOICEE'S					
Invoicee's surname				Invoicee's initials	
Name institution					
Invoicee's full postal address					
Telephone		Email			

INFORMATION INVOICE ETHIQ TRAINING				
Purchase order Date				
Trainee name		Trainee EFI Membership No		



Send by email to:

INVOICE NUMBER	INVOICE DATE	DUE DATE

	Membership number	Name	Training period	Description	Line total
ſ				ETHIQ Training fee	
Γ				TOTAL	€
	PAYMENT MUST BE MADE FOR TH	HE FULL AMOUNT, FREE OF BANK (	HARGE & IN EURO & WITHIN FOUR	WEEK & AFTER RECEIVING THE INV	OICE

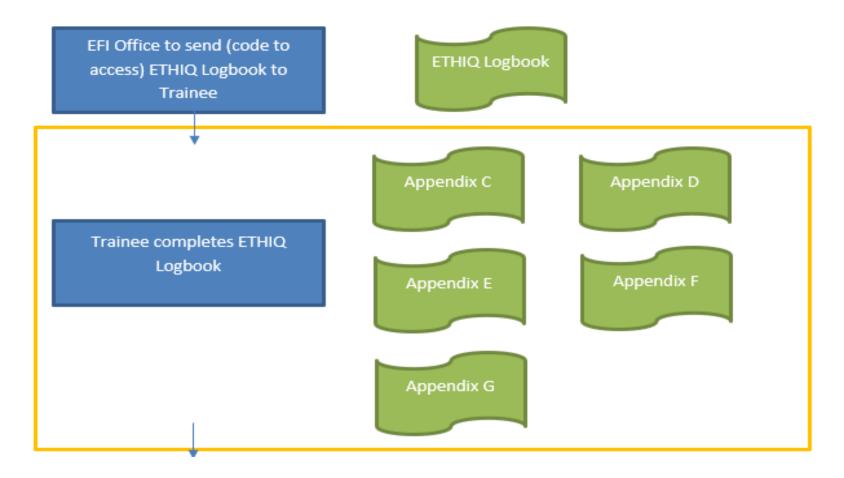
#### Payment:

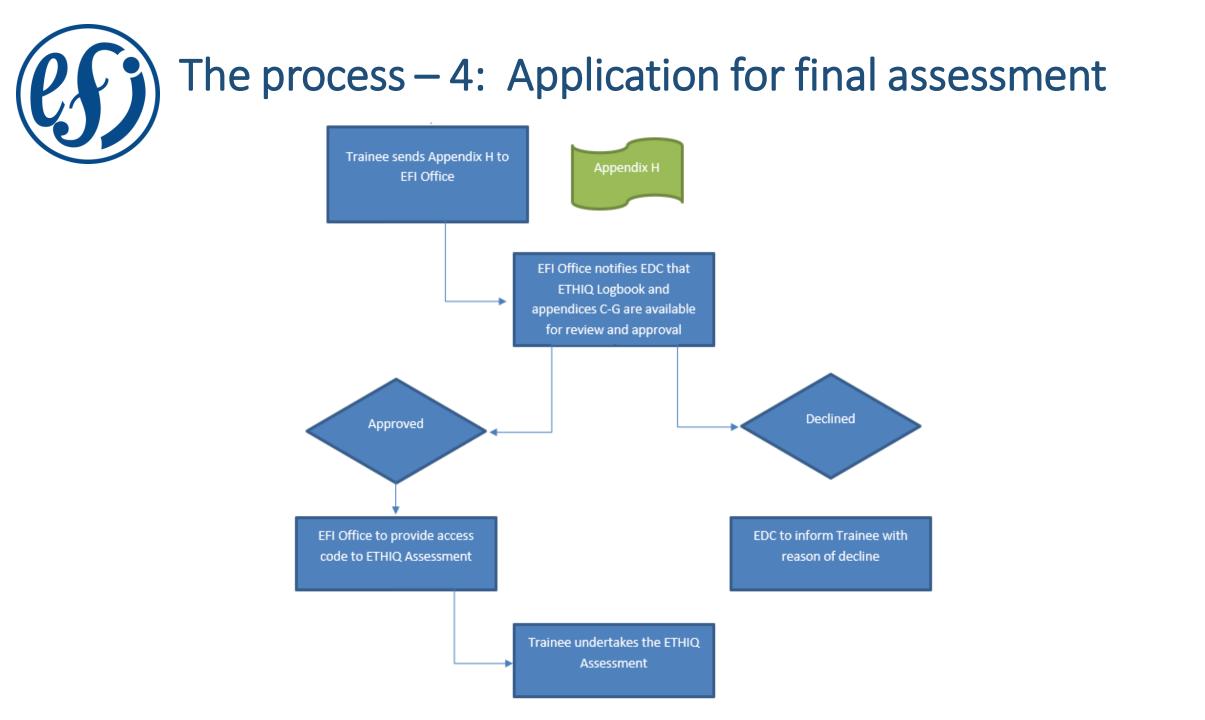
Please use the link jn order to pay the above amount in full via Mollie. Please note Mollie (Stichting Mollie Payments) is the payment partner of European Federation for Immunogenetics.

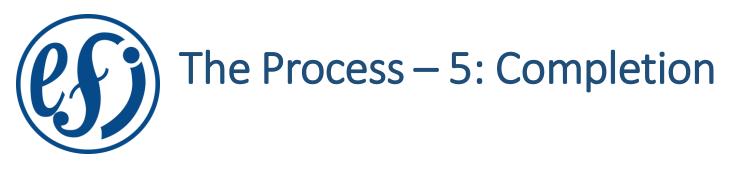
Use this data only for the completion of this particular payment. Please make sure that you fill in all the details correctly.

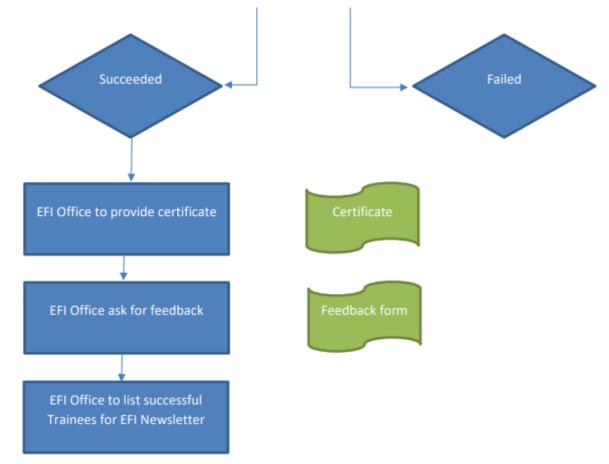


## The Process – 3: Registration











## Getting started



#### Username:

deborahsage

#### Password:

.....

#### Remember username

Log in

Forgotten your username or password?

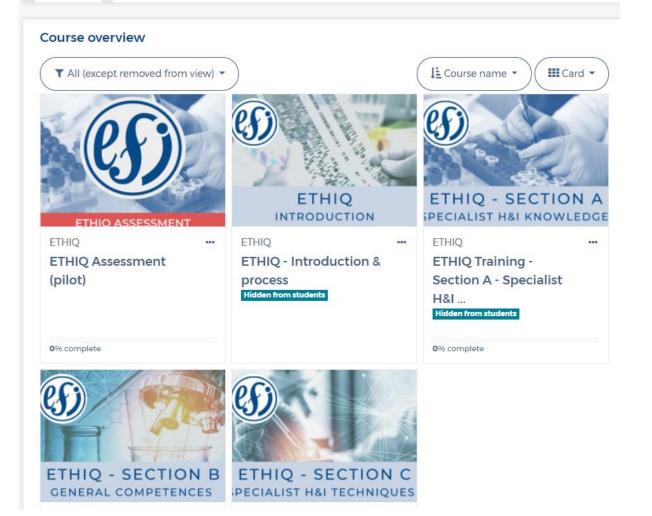
Cookies must be enabled in your browser 😮

#### https://myportal.efi-web.org/login/index.php



## **EFI Education Dashboard**

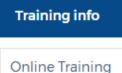
#### **EFI Education: Dashboard**





## Online training logbook

Background



Individual learning and development events

>

Case Study / Validation Report

**Final Assessment** 

Evidence of training

Notes for Supervisors

#### **Online Training**

The Training Manual describes the competences required of technical staff working in the H&I laboratory and is split into 3 sections:

#### 1. Section A - Specialist H&I Knowledge

Section A contains the Specialist H&I knowledge the candidate is expected to understand. For Section A parts 1-3 are mandatory and part 4 may be completed if relevant to the candidates experience.

#### 2. Section B - General competences

Section B of the manual contains the competences which are required of candidates in whichever part of the laboratory they are working. All areas of this section must be completed.

#### 3. Section C - Specialist H&I Techniques

Section C contains specialist H&I competences which may or may not be pertinent to the role of the candidate. The candidate does not have to complete all of Section C if gaining sufficient experience is not possible in their laboratory. However, as a minimum, at least 50% of one of the sections must be completed.



## How to complete and document training

#### Background

#### Training info

#### **Online Training**

Individual	lear	ning	and
developm	ent	event	S

Case Study / Validation Report

#### **Final Assessment**

Evidence of training >

Notes for Supervisors

#### **Evidence of training**

In order to complete the Training Manual, evidence must be provided. Signing off competences and knowledge can be delegated by the training supervisor to other senior staff in the laboratory. Note: all forms can be completed in English or in the local language of the candidate's laboratory. Appropriate assessment methods are:

#### 1. Written (W)

The candidate has written a summary to show their understanding of the section. Use the Written Evidence form in Appendix C.

#### 2. Observed (Obs)

The candidate has been observed competently performing the process on at least two occasions. Use the Observed Competency Evidence form in Appendix D.

#### 3. Oral (O)

The supervisor (or delegated individual) and the candidate have discussed the section. Make a record of the discussion using the Oral Discussion Evidence form in Appendix E.

	WRITTEN EVI	DENCE FORM	
Section A - Special	ist H&I Knowledge	A1.b Adaptive in	nmune responses
Summary of topic in candidate	es own words (note: in English o	r language local to the laborato	vry):
Sources of information			
Assessment method	w	Date	
Trainee Supervisor signature		Trainee signature	

ETHIQ LOGBOOK

APPENDIX C

EUROPEAN

FEDERATION FOR

IMMUNOGENETICS



## ETHIQ Training Section A – Specialist H&I Knowledge





## ETHIQ - SECTION A SPECIALIST H&I KNOWLEDGE

This section of the manual contains the specialist H&I knowledge which is required of all candidates .



## ETHIQ Training Section A – Specialist H&I Knowledge

General	
A1 - Basic Immunology	
Al.a - Innate immune responses	9
Al.b - Adaptive immune responses	>

#### <u>A1.b - Adaptive immune responses</u>

#### Understands:

- the cells involved in the adaptive immune response
- the role of antigen presenting cells
- T cell subsets and their roles
- MHC restriction for T cell activation
- T cell activation via class I and class II antigen presentation

🔜 A1.b - ETHIQ Written evidence form (Appendix C)

- B cell activation and antibody production
- antibody classes and subclasses

#### A2 - The HLA System

A3 - Transplant Immunology

A4 - H&I laboratory role in transfusion



ETHIQ LOGBOOK APPENDIX C

#### WRITTEN EVIDENCE FORM

Section A - Special	ist H&I Knowledge	A1.b Adaptive in	nmune responses
Summary of topic in candidate	es own words (note: in English o	r language local to the laborato	нгу):
Sources of information			
Assessment method	w	Date	
Trainee Supervisor signature		Trainee signature	



## ETHIQ Training Section B – General Competences

General >	
B1 - General laboratory practice	
B2 - Safe working practices in the clinical HLA laboratory	
B3 - Quality management	ETHIQ - SECTION B
B4 - Data handling	GENERAL COMPETENCES
B5 - Stock maintenance	This section of the manual contains the competences which are required of a candidates
B6 - Specimen reception and handling	



## ETHIQ Training Section B – General Competences

c.	0	n	0	r	a	I
9	e		c	•	a	

B1 - General laboratory practice

B2 - Safe working practices in the clinical HLA laboratory

B2.a Health and Safety

B2.b Dealing with potential hazards in the laboratory

>

B2.c Incident / Accident reporting ~

B3 - Quality management

B4 - Data handling

B5 - Stock maintenance

B6 - Specimen reception and

## B2.b Dealing with potential hazards in the laboratory

#### Aware of:

- potential chemical and biological laboratory hazards
- methods for dealing with spillages
- why and when working surfaces and floors need to be decontaminated or disinfected
- reporting procedures for potential / hazardous faults
- the need for safe storage of hazardous materials
- the dangers of liquid nitrogen
- the local waste disposal policy

😓 <u>B2.b - ETHIQ - Oral discussion evidence form (Appendix E)</u>



ETHIQ LOGBOOK APPENDIX E

#### ORAL DISCUSSION EVIDENCE FORM

Section B - Gene	ral competences		tential hazards in the atory
Summary of discussion (to be	completed by trainee supervisor	r or nominated deputy):	
Sources of information			
Assessment method	ο	Date	
Trainee Supervisor signature		Trainee signature	



## ETHIQ Training Section C – Specialist H&I Techniques

General	>
C1 - Sample processing	
C2 - Serological competences	
C3 - Molecular competences	

## ETHIQ - SECTION C SPECIALIST H&I TECHNIQUES

#### Specialist techniques

This section contains specialist competences which may be pertinent to the role of the candidate. All competences relevant to the candidate's laboratory should be completed. Where a candidate contributes to a technique but does not perform all of it they can be assessed for their contribution, provided this is made clear in the evidence form submitted. The candidate does not have to complete all of Section C, if gaining sufficient experience is not possible in their laboratory. However, as a minimum, at least 50% of one of the sections must be completed.



## ETHIQ Training Section C – Specialist H&I Techniques

-			

C1 - Sample processing

C2 - Serological competences

C2.a -

Lymphocytotoxicity assays

C2.b - Flow cytometry crossmatching

C2.c - Antibody identification and definition by solid phase assays

C3 - Molecular competences

#### <u>C2.c - Antibody identification and definition</u> <u>by solid phase assays</u>

Understands:

- the basic principles of antibody detection/definition
- problems that may be encountered in solid phase assays for antibody detection
- the need for quality control samples in solid phase assays for antibody detection Competently:
- follows the local procedures for antibody detection/definition using solid phase assays
- analyses / interprets the results of the assay seeking advice as necessary
  - <u> C2.c ETHIQ Written evidence form (Appendix C)</u>

C2.c - ETHIQ Observed Competency evidence form (Appendix D)



ETHIQ LOGBOOK APPENDIX D

#### **OBSERVED COMPETENCY EVIDENCE FORM**

Section C - Speciali	st H&I Techniques	C2.c Antibody identif by solid ph	ication and definition ase assays
-	mpetence was assessed by supe e results were obtained and the		clude whether SOP was
Assessment 1:			
Assessment 2:			
Trainee signed off as competer	nt for this area in line with EFI S	tandards?	
Tes Yes		🗆 No	
Assessment method	Obs	Date	
Trainee Supervisor signature		Trainee signature	



## Individual learning and development events



ETHIQ LOGBOOK APPENDIX F

#### **REFLECTIVE LEARNING ACTIVITY RECORD FORM**

Date of learning event:	
Summary of learning event (to be completed b	by trainee):
	• Processor • •
Assessment method	Date

#### Background

Training info

**Online Training** 

Individual learning and development events >

Case Study / Validation Report

**Final Assessment** 

Evidence of training

Notes for Supervisors

#### Individual learning and development events

Candidates must submit a summary of individual learning and development events. It would be expected that candidates attend a minimum of 3 learning events (seminars, presentations, conferences, local meetings) per year of their training period.

Please use the REFLECTIVE LEARNING ACTIVITY RECORD FORM (Appendix F) for each event.

F. Reflective Learning Activity Record Form



## Completion of a Case Study or Validation report



EUROPEAN FEDERATION FOR IMMUNOGENETICS

ETHIQ LOGBOOK APPENDIX G

#### ASSESSMENT OF CASE STUDY / VALIDATION REPORT

Candidates must prepare and submit one of the following:

- 1. A basic case study from within the candidates experience or
- 2. A validation report (e.g. new assay /reagent validation)

This must be completed using the candidate's own format (minimum 500-maximum 1,000 words). This can be completed in English or in the local language of the candidate's laboratory.

#### Background

Training info

**Online Training** 

Individual learning and development events

Case Study / Validation Report

**Final Assessment** 

Evidence of training

Notes for Supervisors

#### Case Study / Validation Report

Candidates must prepare and submit one of the following:

1. A basic case study from within the candidates experience or 2. A validation report (e.g. new assay /reagent validation)

This must be completed using the candidate's own format (minimum 500maximum 1,000 words). This can be completed in English or in the local language of the candidate's laboratory.

G. Assessment of Case Study / Validation report by Training Supervisor Form

Assessment method	Date	
Trainee Supervisor signature	Trainee signature	



## The Final Assessment



ETHIQ LOGBOOK APPENDIX H

#### TRAINING MANUAL APPLICATION FOR FINAL ASSESSMENT FORM

At the end of the training period the Training Manual and associated evidence is sent to the EFI Education Committee and is assessed to ensure there is evidence of appropriate understanding and training in H&I.

#### Background

**Training info** 

**Online Training** 

Individual learning and development events

Case Study / Validation Report

Final Assessment

Evidence of training

Notes for Supervisors

#### Final Assessment

At the end of the training period the Training Manual and associated evidence is sent to the EFI Education Committee and is assessed to ensure there is evidence of appropriate understanding and training in H&I (use the Training Manual Application for Final assessment form in Appendix H).

If sufficient evidence is provided the candidate is then invited to undertake a short online assessment which must be passed for the candidate to be awarded the ETHIQ Diploma. It will be possible to omit some questions if training has not been received in these areas. If there are deficiencies in the training then the candidate will be asked to remedy these deficiencies before re-submission for assessment.

H. Training Manual Application For Final Assessment Form

# Assessment method Date Trainee Supervisor signature Trainee signature



## Final Assessment

General

ETHIQ Logbook Assessment (pilot)

#### ETHIQ Logbook Assessment (pilot)

The ETHIQ Diploma is managed and administered by the EFI Education Committee. The purpose of the training is to enable technical staff working in H&I to demonstrate knowledge and competence within their workplace.

Following the successful assessment by the EFI Education Committee of your Training Manual and associated evidence, you have been invited to undertake a short online assessment which must be passed to enable the award of the ETHIQ Diploma.

You will be given 60 minutes to complete 30 multiple choice questions relating to topics contained in the ETHIQ syllabus. Candidates need to answer 75% of questions correctly to pass this assessment. If the outcome of the assessment indicates deficiencies in training that need to rectified, then the candidate will be asked to remedy these deficiencies before resubmission.





## Congratulations!!!!!!



European Federation for Immunogenetics

## ETHIQ DIPLOMA

is awarded to

## Name of candidate

for successfully passing the Training Manual and Online Assessment of the EFI Technical H&I Qualification (ETHIQ) for Technical Staff Working in EFI Accredited Laboratories

Date

Amittle

Ann-Margaret Little President

Dave Roelen Secretary

Debracel Soge

Deborah Sage Chair Education Committee



# Feedback pilot applicants ETHIQ Diploma



## Experience

- 4 applicants in our region : 2 in Lyon, 1 in Grenoble and 1 in St Etienne
- Technical supervisors
- 15 months time period between registration and final assessment



## Organisation

- One candidate ⇔ One supervisor
- Takes time for both parties to provide proofs and evaluate the knowledge
- Planning of regular short interviews between candidate and supervisor to validate the progress, take care of difficulties and maintain confidence
- Fundamentals would need to be updated: provide adequate training courses to the candidate



## **Motivation**

- Both the candidate and the supervisor should be motivated to enter the program and finalise it in the dedicated time
- Time consuming: need to work at home for e-learning courses
- Supervisor must provide adequate supervision, recommendations, and advice



## **Positive Consequences for applicants**

- Improvement and update of immunological and technical knowledge
- Valorization of personal work
- Recognition of lab position or a step-up to a more valuable position, and even higher wages .... ③



## Questions??