# EXAMENSBEVIS

## DEGREE CERTIFICATE

## Högskoleingenjörsexamen - Datateknik

Degree of Bachelor of Science in Engineering - Computer Science and Engineering

### Lukas Pohlman

19960817-0057

Linköpings universitet den 12 maj 2021 Linköping University 12 May 2021

På Tekniska fakultetens vägnar On behalf of the Faculty of Science and Engineering

Rebecca Andersson

Samordnare/Examen
Officer of Degree Administration



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 ${\tt Personnummer}/{\tt Personal}~identity~number$ 

Inriktning/Specialisering: Programvara

 $Branch\ of\ Studies/Specialisation:\ Software\ Engineering$ 

Digitalekank   Seo   Para   Puss with credit   Problemi6sning och programmering   Problemi6sning och programmering   Problemi6sning och programmering   Problemi6sning och programming   Seo   Godkänd*   2017-12-19   Patotteknik   Computer Hardware and Architecture   12,0   Fem*   2018-01-12   Puss with distinction   2018-01-12   Puss with distinction   Puss with distinction   Puss with distinction   2018-01-12   Puss with distinction   2018-01-12   Puss with distinction   2018-01-12   Puss with distinction   2018-03-15   Puss with distinction   2018-03-15   Puss with distinction   2018-03-20   Pose with distinction   2018-03-20   Puss with distinction   2019-03-20   P	Kurs Course	Högskolepoäng Credits	Betyg <i>Grade</i>	Datum <i>Date</i>
Problem Solving and Programming   Pass with distinction	8	8,0	•	2017-10-18
Computer Hardware and Architecture		6,0		2017-12-18
Calculus       Pass with distinction         Linjär algebra       6.0       Fem¹ Pass with distinction         Linear Algebra       4.0       Fyra¹ Pass with distinction         Objektorienterad programmering       4.0       Fyra¹ Pass with credit         Objektorienterad proplemiosing       8,0       Godkänd² Pass with distinction         Wikrodatorprojekt Project with Microcontroller       10,0       Fem¹ Pem¹ Pass with distinction         Objektorienterad problemiosining Object Oriented Problem Solving       2,0       Godkänd² 2       2018-06-19         Ingenjörsprofessionalism for Engineers       2,0       Godkänd² 2       2018-06-29         Professionalism for Engineers       6,0       Fyra¹ Pass with distinction       2018-11-02         Datastrukture och algorithms       6,0       Fem¹ Pass with distinction       2018-11-02         Industrial Economic, Brasic Course       6,0       Fem¹ Pass with distinction       2018-11-07         Diskret matematik Discrete Mathematics       6,0       Fem¹ Pass with distinction       2019-01-18         Discrete Mathematics       6,0       Fem¹ Pass with distinction       2019-03-22         Operativsystem Protected Mathematics       6,0       Fem¹ Pass with distinction       2019-03-22         Operativsystem Protected System Surfing Systems       8,0		4,0		2017-12-19
Linear Algebra Objekt Oriented Programmering Objekt Oriented Programming Mikrodatorprojekt Project with Microcontroller Objekt Oriented Proplem Solving Objekt Oriented Problem Solving Objekt		12,0		2018-01-12
Diplect Oriented Programming   Room   Pass with credit	3 0	6,0		2018-03-15
Project with Microcontroller		4,0		2018-03-20
Diject Oriented Problem Solving	1 0	8,0		2018-06-14
Professionalism for Engineers  Datastrukturer och algoritmer Data Structures and Algorithms  Industriell ekonomi, grundkurs Inskret matematik Discrete Mathematics  Sannolikhetslär och statistik, grundkurs Pross with distinction  Sannolikhetslär och statistik, grundkurs Probability and Statistics, first course  Operativsystem Operating Systems  Operating Systems  Datornät och distributeade system Computer Networks and Distributed Systems  Introduktionskurs i Matlab Introduktion in Matlab Process- och operativsystemprogrammering Concurrent and Operating Systems Programming  Databasteknik Database Technology  Databasteknik Datorakitektur Datorakitektur Studier utomlands höstterminen 2019 4  Kebbprogrammering Gron IT Green Computing Grundläggande system Administration Introduction to System Administration Frunderna i MI  200 Godkänd 2  2020-04-25  Grunderna i MI  200 Godkänd 2  2020-04-27  Grunderna i MI  2020-04-27		10,0		2018-06-15
Data Structures and Algorithms       Pass with credit         Industriel ekonomic, grundkurs       6,0       Fem¹ Pass with distinction         Diskret matematik       6,0       Fem¹ Pass with distinction         Diskret matematik       2019-01-18         Diskrete Mathematics       6,0       Tre³ Pass with distinction         Sannolikhetslära och statistik, grundkurs Probability and Statistics, first course       6,0       Tre³ 2019-03-20 Pass         Operativsystem Operativsystem Operativsystems       6,0       Fem¹ Pass with distinction       2019-03-22 Pass with distinction         Datornät och distribuerade system       8,0       Fyra¹ Pass with credit       2019-04-17 Pass with credit         Introduktionskurs i Matlab Introduction in Matlab       2,0       Godkänd² Pass with distinction       2019-05-29 Pass with distinction         Process- och operativsystemprogrammering Concurrent and Operating Systems Programming       4,0       Fyra¹ Pass with credit       2019-06-03 Pass with credit         Databasteknik Database Technology       4,0       Fyra¹ Pass with credit       2020-01-16 Pass with credit         Studies Abroad during the Autumn Semester 2019       4,0       Fem¹ Pass with distinction       2020-01-23 Studies Abroad during the Autumn Semester 2019         Webbprogrammering Web Programming Pr	Ingenjörsprofessionalism Professionalism for Engineers	2,0		2018-06-29
Industrial Economics, Basic Course  Diskret matematik Discrete Mathematics Sannolikhetslära och statistik, grundkurs Pass with distinction  Sannolikhetslära och statistik, grundkurs Pass with distinction  Tre 3 2019-03-20 Probability and Statistics, first course  Operating Systems Operating Systems Operating Systems  Baso Pass with distinction  Fem 1 Pass with distinction  Pass with distinction  Datornät och distribuerade system Operating Systems  Baso Pyra 1 Pass with credit  Introduktionskurs i Matlab Introduction in Matlab Process- och operativsystemprogrammering Concurrent and Operating Systems Programming  Databasteknik Databaste Technology Datorakitektur Advanced Computer Architecture  Studies Abroad during the Autumn Semester 2019  Webbprogrammering Webprogrammering Webprogrammering Webprogramming  Grön IT Green Computing Grundlägande systemadministration Introduction to System Administration Rounderna i AI  2019-04-17 Pass Pass with distinction Pyra 1 Pass with credit Pass with credit Pass with credit Pass with credit Pass with distinction Pass Pass Pass Pass Pass Pass Pass Pas	· ·	6,0	•	2018-11-02
Discrete Mathematics   Pass with distinction		6,0		2018-11-07
Probability and Statistics, first course  Operativsystem Operating Systems  Base Operating Systems  Solution		6,0		2019-01-18
Operating Systems       Pass with distinction         Datornät och distribuerade system       8,0       Fyra ¹ pass with credit         Introduktionskurs i Matlab       2,0       Godkänd ² pass       2019-05-29         Introduction in Matlab       4,0       Fem¹ pass with distinction       2019-06-03         Process- och operativsystemprogrammering Concurrent and Operating Systems Programming       6,0       Fyra¹ pass with distinction       2019-06-03         Databasteknik Database Technology       6,0       Fyra¹ pass with credit       2020-01-16         Datorarkitektur Advanced Computer Architecture       4,0       Fyra¹ pass with credit       2020-01-16         Studies Abroad during the Autumn Semester 2019       26,5       -       2020-01-23 5         Webbprogrammering Web Programming       6,0       Fem¹ pass with distinction         Grön IT Green Computing       4,0       Tre¹ pass with distinction         Grundläggande systemadministration Introduction to System Administration       8,0       Tre¹ pass       2020-04-20         Grunderna i AI       2,0       Godkänd²       2020-04-27		6,0		2019-03-20
Introduktionskurs i Matlab   2,0   Godkänd 2   2019-05-29   Introduction in Matlab   2,0   Godkänd 2   2019-05-29   Introduction in Matlab   2,0   Fem 1   2019-06-03   Pass with distinction   Pass with distinction   Pass with credit   2019-06-17   Pass with credit   Pass with distinction   Pass with distinction   Pass with distinction   Pass   Pa		6,0		2019-03-22
Introduction in MatlabPassProcess- och operativsystemprogrammering Concurrent and Operating Systems Programming4,0Fem¹ Pass with distinction2019-06-03Databasteknik Database Technology6,0Fyra¹ Pass with credit2019-06-17Datorarkitektur Advanced Computer Architecture4,0Fyra¹ Pass with credit2020-01-16Studier utomlands höstterminen 2019⁴ Studies Abroad during the Autumn Semester 201926,5-2020-01-23⁵Webbprogrammering Web Programming6,0Fem¹ Pass with distinction2020-03-27Web Programming4,0Tre¹ Pass2020-04-08Green Computing8,0Tre¹ Pass2020-04-20Introduction to System Administration Introduction to System Administration8,0Tre¹ Pass2020-04-20Grunderna i AI2,0Godkänd²2020-04-27		8,0		2019-04-17
Concurrent and Operating Systems ProgrammingPass with distinctionDatabasteknik Database Technology6,0Fyra¹ Pass with credit2019-06-17Datorarkitektur Advanced Computer Architecture4,0Fyra¹ Pass with credit2020-01-16Studier utomlands höstterminen 2019⁴ Studies Abroad during the Autumn Semester 201926,5-2020-01-23⁵Webbprogrammering Web Programming6,0Fem¹ Pass with distinction2020-03-27Grön IT Green Computing4,0Tre¹ Pass2020-04-08Grundläggande systemadministration Introduction to System Administration8,0Tre¹ Pass2020-04-20Grunderna i AI2,0Godkänd²2020-04-27		2,0		2019-05-29
Database TechnologyPass with creditDatorarkitektur Advanced Computer Architecture4,0Fyra 1 Pass with credit2020-01-16Studier utomlands höstterminen 2019 4 Studies Abroad during the Autumn Semester 201926,5-2020-01-23 5Webbprogrammering Web Programming6,0Fem 1 Pass with distinction2020-03-27Grön IT Green Computing4,0Tre 1 Pass2020-04-08Grundläggande systemadministration Introduction to System Administration8,0Tre 1 Pass2020-04-20Grunderna i AI2,0Godkänd 22020-04-27	Process- och operativsystemprogrammering Concurrent and Operating Systems Programming	4,0		2019-06-03
Advanced Computer ArchitecturePass with creditStudier utomlands höstterminen 2019 4 Studies Abroad during the Autumn Semester 201926,5 2020-01-23 5Webbprogrammering Web Programming6,0 		6,0		2019-06-17
Studies Abroad during the Autumn Semester 2019  Webbprogrammering 6,0 Fem¹ 2020-03-27  Web Programming 4,0 Tre¹ 2020-04-08  Green Computing Pass  Grundläggande systemadministration 8,0 Tre¹ 2020-04-20  Introduction to System Administration Pass  Grunderna i AI 2,0 Godkänd² 2020-04-27		4,0		2020-01-16
Web ProgrammingPass with distinctionGrön IT4,0 $Tre^1$ 2020-04-08Green ComputingPass2020-04-20Grundläggande systemadministration8,0 $Tre^1$ 2020-04-20Introduction to System AdministrationPassGrunderna i AI2,0 $Godkänd^2$ 2020-04-27		26,5	-	2020-01-23 5
Green ComputingPassGrundläggande systemadministration8,0 ${\rm Tre}^{1}$ 2020-04-20Introduction to System AdministrationPassGrunderna i AI2,0 ${\rm Godk\"{a}nd}^{2}$ 2020-04-27		6,0		2020-03-27
Introduction to System Administration Pass  Grunderna i AI 2,0 Godkänd² 2020-04-27		4,0		2020-04-08
,		8,0		2020-04-20
		2,0		2020-04-27

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Kurs Course	Högskolepoäng Credits	Betyg <i>Grade</i>	Datum <i>Date</i>
Introduktion till examensarbete Introduction to Bachelor Thesis	4,0	Godkänd² <i>Pass</i>	2020-10-23
Examensarbete Degree Project - Bachelor's Thesis	16,0	Godkänd² <i>Pass</i>	2021-03-23

#### Examensarbete

#### Degree Project

Implementation av centraliserad Multihop Routing med High Level Architecture - En empirisk undersökning av kontextspecifika heuristiker för effektiv grafsökning

 $Implementation\ of\ centralized\ Multihop\ Routing\ with\ High\ Level\ Architecture\ -\ An\ empirical\ study\ of\ context\ specific\ heuristics\ for\ effective\ graph\ search$ 

Högskoleingenjörsexamen är en yrkesexamen på grundnivå

 ${\it The Degree of Bachelor of Science in Engineering is a professional degree within the first cycle}$ 

Datum för avslutade studier den 23 mars 2021

The degree requirements were fulfilled 23 March 2021

#### Noter/Notes

- Betygsskala: Fem (5), Fyra (4), Tre (3)
  Grading scale: Pass with distinction (5), Pass with credit (4), Pass (3)
- 2 Betygsskala: Godkänd (G) Grading scale: Pass (G)
- Betygsskala: Fem (5), Väl godkänd (VG), Fyra (4), Tre (3), Godkänd (G) Grading scale: Pass with distinction (5), Pass with distinction (VG), Pass with credit (4), Pass (3), Pass (G)
- 4 Tillgodoräknas från Nanyang Technological University, Singapore Transferred from Nanyang Technological University, Singapore
- 5 Beslutsdatum Date of decision

1,5 högskolepoäng motsvarar en veckas heltidsstudier, 30 högskolepoäng motsvarar en termins heltidsstudier. Denna examen omfattar 180 högskolepoäng.

1.5 credits correspond to one week of full time studies, 30 credits correspond to one semester of full-time studies. The scope of this degree is 180 credits.

Examen har avlagts i enlighet med bestämmelserna i högskoleförordningen (SFS 1993:100).

The degree has been awarded in accordance with the regulations governing Swedish higher education (SFS 1993:100).



#### **DIPLOMA SUPPLEMENT**

This Diploma Supplement model was developed by the European Commission, Council of Europe and UNESCO/CEPES. The purpose of the supplement is to provide sufficient independent data to improve the international "transparency" and fair academic and professional recognition of qualifications (diplomas, degrees, certificates etc.). It is designed to provide a description of the nature, level, context, content and status of the studies that were pursued and successfully completed by the individual named on the original qualification to which this supplement is appended. It should be free from any value judgements, equivalence statements or suggestions about recognition. Information in all eight sections should be provided. Where information is not provided, an explanation should give the reason why.

#### 1. Information identifying the holder of the qualification

- 1.1 Family name(s) Pohlman
- 1.2 Given name(s) Lukas
- 1.3 Date of birth (day/month/year) 17 August 1996
- 1.4 Student identification number or code (if available) 19960817-0057

#### 2. Information identifying the qualification

#### 2.1 Name of qualification and (if applicable) title conferred (in original language)

Högskoleingenjörsexamen - Datateknik (Degree of Bachelor of Science in Engineering - Computer Science and Engineering)

#### 2.2 Main field(s) of study for the qualification

Software Engineering

#### 2.3 Name and status of awarding institution (in original language)

Linköpings universitet (Linköping University).

State recognised university.

## 2.4 Name and status of institution (if different from 2.3) administering studies (in original language) Not applicable.

#### 2.5 Language(s) of instruction/examination

Mainly Swedish.

#### 3. Information on the level of the qualification

#### 3.1 Level of qualification

Grundnivå/First-cycle QF-EHEA SeQF 6/EQF 6. For information on the Swedish higher education system, see section 8.

#### 3.2 Official length of programme

180 högskolepoäng (credits)/180 ECTS. Duration of 3 years of full-time studies. A normal 40-week academic year corresponds to 60 credits (högskolepoäng). One credit corresponds to 1 ECTS credit.

#### 3.3 Access requirement(s)

There are general and (additional) specific entry requirements that should be fulfilled for access to higher education within all cycles. The general entry requirements for first-cycle studies are the same for all higher education. General entry requirements can be attained by completing an upper-secondary school programme, via adult education at upper-secondary school level or the applicants achieving a comparable level of learning outcomes through other education, practical experience or other circumstances.

#### 4. Information on the contents and results gained

#### 4.1 Mode of study

Full-time equivalent.

#### **4.2** Programme requirements

The Swedish Higher Education Act takes account of 1) courses and study programmes based on scholarship or artistic practice and on proven experience, and 2) research and artistic research as well as development work. Reference to research below also applies to artistic research.

According to the Swedish Higher Education Act, first-cycle courses and study programmes shall develop the students': ability to make independent and critical assessments; ability to identify, formulate and solve problems autonomously; and the preparedness to deal with changes in working life. In addition to knowledge and skills in their field of study, students shall develop the ability to: gather and interpret information at a scholarly level; stay abreast of the development of knowledge; and communicate their knowledge to others, including those who lack specialist knowledge in their field. (For further information, see The Swedish Higher Education Act and The Higher Education Degree Ordinance: www.uhr.se/en)

## 4.3 Programme details (e.g. modules or units studied), and the individual grades/marks/credits obtained (if this information is available on an official transcript this should be used here)

A requirement for the award of a Degree of Bachelor of Science in Engineering is completion by the student of an independent project (degree project) for at least 15 credits.

For more information, see Degree Certificate/Official Transcript.

#### 4.4 Grading scheme and, if available, grade distribution guidance

There is no national grading system in Sweden. Higher education institutions may determine which grading system is to be used. For more information, see Degree Certificate/Official Transcript.

#### 4.5 Overall classification of the qualification (in original language)

Not applicable for Swedish qualifications, since no overall grade is awarded for a degree and students are not ranked. For example, Grade Point Average (GPA) and other ranking systems are not used in Sweden.

#### 5. Information on the function of the qualification

#### 5.1 Access to further study

The degree gives access to second-cycle studies (master studies).

#### 5.2 Professional status (if applicable)

Högskoleingenjörsexamen (Degree of Bachelor of Science in Engineering) constitutes regulated education and training as defined in Article 3(1)(e) of Directive 2005/36/EC. The provisions of Article 13(2) last paragraph of Directive 2005/36/EC apply for the holders of the Högskoleingenjörsexamen (Degree of Bachelor of Science in Engineering).

The Degree of Bachelor of Science in Engineering corresponds to the qualification level referred to in point (d) of Article 11 of Directive 2005/36/EC.

#### 6. Additional information

#### 6.1 Additional information

None.

#### 6.2 Further information sources

Linköpings universitet, SE-581 83 Linköping, Sweden

Phone: +46 13 28 10 00, www.liu.se

The Swedish Council for Higher Education (Universitets- och högskolerådet) has been commissioned to act as the Swedish NARIC and is also part of ENIC. The ENIC-NARIC office provide information on education in Sweden. Please see: http://www.uhr.se For information on Professional Qualifications Directive, Swedish National Assistance Centre for the Recognition of Professional Qualifications (Professional Qualifications Directive 2005/36/EC): pqinfo@uhr.se For information on quality assurance, Swedish Higher Education Authority: http://english.uka.se

#### 7. Certification of the supplement

**7.1** Date 12 May 2021

#### 7.2 Signature

Digitally signed. See electronic seal at the end of the document.

7.3 Capacity Officer of Degree Administration.

#### 7.4 Official stamp or seal

Not applicable.

#### 8. Information on the national higher education system

See attached information on the The Swedish higher education system.





## The Swedish higher education system

According to legislation <u>after</u> 1 January 2007. The following description is approved by the Swedish Council for Higher Education.

The Swedish higher education system is based on the Swedish Higher Education Act (SFS 1992:1434) and the 1 January 2007 amendments to the Higher Education Ordinance (1993:100). The following description is a short summary based on the legislation regulating the Swedish higher education system.

Qualifications from all higher education institutions (universities, university colleges and independent higher education providers) that are recognized by the Government are of equal official value. The same legislation governs all state higher education institutions. All Swedish degrees are issued in accordance with the same degree ordinances.

## **Quality assurance**

The Swedish Higher Education Authority has been responsible for the quality assurance system for all higher education since 1 January 2013. For more information, please visit www.uka.se. Evaluation reports are available to the public.

## National Qualification Frameworks

The Swedish Higher Education Act and the Higher Education Ordinance have been amended in accordance with the agreements reached as part of the Bologna Process, including the Qualifications Frameworks in the European Higher Education Area (QF-EHEA). Legislation for a three-cycle structure of higher education started to apply in July 2007, and is now the only one in use in all Swedish higher education. Transitional provisions apply to courses and programmes that started prior to this. For more information, please visit www.uhr.se/en or enic-naric.net.

In 2015, the Swedish Government decided on a national qualifications framework (SeQF), based on the European Qualifications Framework for Lifelong Learning (EQF). The SeQF has eight levels that are in accordance with the EQF

levels. Higher education qualifications are at levels six to eight. For more information, please visit www.seqf.se.

## **Credit system**

Sweden has a system of credits (högskolepoäng); a normal 40-week academic year corresponds to 60 credits. The system is compatible with ECTS credits.

## **Grading system**

There is no national grading system in Sweden. Higher education institutions may determine which grading system is to be used. No overall grade is awarded for a degree and students are not ranked. For example, Grade Point Average (GPA) and other ranking systems are not used in Sweden.

### **Access and admission**

There are general and specific entry requirements for access to higher education within all cycles. The specific entry requirements vary according to the field of higher education and/or should be essential for students to be able to benefit from the course or study programme. The number of places is limited on all study programmes and courses.

The general entry requirements for first-cycle studies are the same for all higher education. General entry requirements can be attained by completing an upper-secondary school programme, via adult education at upper-secondary school level or the applicants achieving a comparable level of learning outcomes through other education, practical experience or other circumstances.

The general entry requirements for second-cycle studies are a first-cycle qualification of at least 180 credits, or a corresponding foreign qualification. An applicant may also be accepted on the basis of a comparable level of learning outcomes obtained through other education, practical experience or other circumstances.  $\rightarrow$ 

The general entry requirements for third-cycle studies are a second-cycle qualification, or completed courses worth at least 240 credits (of which 60 credits are at second-cycle level) or the equivalent level of knowledge acquired in Sweden or abroad. Furthermore, for entry to third-cycle studies, the applicant must be deemed able to benefit from the education.

## **Qualifications**

All courses, study programmes and qualifications are on one of three levels: first-, second- or third-cycle. In the Higher Education Ordinance, the Government has determined which qualifications may be awarded, as well as their scope, requirements and intended learning outcomes. There are three categories of qualifications: general; the fine, applied and performing arts; and professional qualifications. For some more information, please see below.

## **General qualifications**

#### First-cycle (SeQF/EQF 6)

Högskoleexamen (Higher Education Diploma) requires 120 credits and an independent project (degree project).

Kandidatexamen (Degree of Bachelor) requires 180 credits. At least 90 credits must be completed in the main field of study, including an independent project (degree project) worth 15 credits.

#### Second-cycle (SeQF/EQF 7)

Magisterexamen (Degree of Master (60 credits)) requires 60 credits. At least 30 credits must be completed in the main field of study, including an independent project (degree project) worth 15 credits. In addition, the student must normally hold a kandidatexamen, or a professional degree of at least 180 credits, or an equivalent foreign degree.

Masterexamen (Degree of Master (120 credits)) requires 120 credits. At least 60 credits must be completed in the main field of study, including an independent project (degree project) worth at least 30 credits. In addition, the student must normally hold a kandidatexamen, or a professional degree of at least 180 credits or an equivalent foreign degree.

#### Third-cycle (SeQF/EQF 8)

Licentiatexamen (Degree of Licentiate) requires at least 120 credits, including a research thesis worth at least 60 credits. A higher education institution may decide that a licentiatexamen can be awarded as a separate qualification or as a step on the way to doktorsexamen (see below).

Doktorsexamen (Degree of Doctor) requires 240 credits, including a research thesis (doctoral thesis) worth at least 120 credits. The thesis must be presented at a public defence.

# Qualifications in the fine, applied and performing arts

Qualifications in the fine, applied and performing arts are awarded at all three cycles and corresponding SeQF levels. At first-cycle level: konstnärlig högskoleexamen (Higher Education Diploma) and konstnärlig kandidatexamen (Degree of Bachelor of Fine Arts). At second-cycle level: konstnärlig magisterexamen (Degree of Master of Fine Arts (60 credits)) and konstnärlig masterexamen (Degree of Master of Fine Arts (120 credits)). Two third-cycle qualifications are awarded: konstnärlig licentiatexamen (Degree of Licentiate) and konstnärlig doktorsexamen (Degree of Doctor).

## **Professional qualifications**

Professional qualifications are offered at either first- or second-cycle level and corresponding SeQF levels. These qualifications may stretch over two cycles and are awarded in areas that include engineering, health care, agriculture, law, and education. Professional qualifications are regulated by national legislation and are considered regulated education subject to the Professional Qualifications Directive 2005/36/EC.

## **Titles of qualifications**

Translations into English of all titles of qualifications are regulated at the national level. Higher education institutions may decide to add a prefix to a qualification title e.g. filosofie kandidatexamen or medicine doktorsexamen or/and add a major field of studies e.g. civilingenjörsexamen i maskinteknik.

## Signature page

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