

Philippe Christian Giverholt Åkerman

Cpr.nr/*Civil reg.no.* 111282-2123

har den/
has on the

23. januar 2008

Bestået/
passed

Diplomingeniør i Produktionsteknik

Bachelor of Manufacturing Engineering and Management

og har dermed ret til at betegne sig

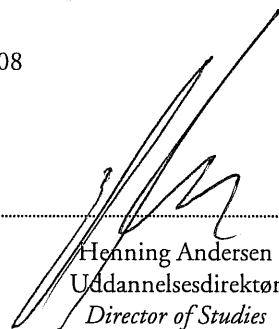
and has thus been awarded the title of

Bachelor of Engineering (B.Eng.)

Odense, den 26. januar 2008



Per Michael Johansen
Dekan
Dean
Syddansk Universitet
University of Southern Denmark



Henning Andersen
Uddannelsesdirektør
Director of Studies
Syddansk Universitet
University of Southern Denmark

Kun gyldig i original med universitetets prægestempel

This document is official only in the original, bearing the University's embossed stamp

Navn, *Name*
Philippe Christian Giverholt
Åkerman
Cpr.nr., *Civil reg. No.*
111282-2123

Karakter/Mark/Grade			ECTS	Vægt
7-skala	13-skala	ECTS	Points	Credit factor

DIPLOMINGENIØR I PRODUKTIONSTEKNIK
BACHELOR OF MANUFACTURING ENGINEERING AND
MANAGEMENT

OBLIGATORISK DEL
CORE UNITS

INGENIØRFAGLIGT GRUNDLAG 2 BASIC APPLIED SCIENCE 2 Løbende evaluering, ingen censur <i>Continuous evaluation, Without second examiner</i>	7	8	C	7,0
PRODUKTIONSFORBEREDELSE PRODUCTION PREPARATION Fra produkt til arbejdsplads hos Kverneland A/S Projekt og mundtligt forsvar, intern censur <i>From Product to Workspace at Kverneland A/S</i> <i>Project and oral defence, Internal examiner</i>	7	8	C	20,0
ERHVERVSØKONOMI 1 BUSINESS ECONOMICS 1 Skriftlig, ingen censur <i>Written exam, Without second examiner</i>	7	8	C	3,0
ERHVERVSØKONOMI 1B BUSINESS ECONOMICS 1B Skriftlig, intern censur <i>Written exam, Internal examiner</i>	7	8	C	3,0
PRODUKTIONSVIRKSOMHEDEN THE MANUFACTURING COMPANY Projekt og mundtligt forsvar, intern censur <i>Project and oral defence, Internal examiner</i>	7	9	C	20,0

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INGENIØRFAGLIGT GRUNDLAG 3 BASIC APPLIED SCIENCE 3 Løbende evaluering, ingen censur <i>Continous evaluation, Without second examiner</i>	7	9	C	10,0	
OMKOSTNINGSØKONOMI 1 MANAGEMENT ACCOUNTING Mundtlig, intern censur <i>Oral exam, Internal examiner</i>	10	10	B	6,0	
LOGISTIK LOGISTICS Mundtlig, ekstern censur <i>Oral exam, External examiner</i>	10	10	B	6,0	
ERHVERVSRET BUSINESS LAW Mundtlig, ekstern censur <i>Oral exam, External examiner</i>	4	7	D	6,0	
ANALYSEPROJEKT (LEAN MANUFACTURING) ANALYSIS OF PRODUCTION PROCESSES OF INDUSTRIAL COMPANIES (LEAN MANUFACTURING) Lean i produktionen - Rosshield Godkendelsesprocedure, intern censur <i>Lean manufacturing - Rosshield</i> <i>Approval procedure, Internal examiner</i>	12	11	A	12,0	
SPECIALISERINGSPROJEKT PROJECT IN A SPECIALIZATION OF MANUFACTURING AND MANAGEMENT Profitsikring af ny afdeling Projekt og mundtligt forsvar, ekstern censur <i>Maximizing profits of new department</i> <i>Project and oral defence, External examiner</i>	12	11	A	12,0	

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STUDIEEGNETHEDSPRØVE	Bestået	Bestået		30,0	
	<i>Passed</i>	<i>Passed</i>			
Meritoverført (30 ECTS-points) Overført fra Syddansk Universitet <i>Exempted (30 ECTS-points)</i>					
Meritoverført (30 ECTS-points) Overført fra Syddansk Universitet <i>Exempted (30 ECTS-points)</i>					
TILVALGSDEL ELECTIVE UNITS					
MARKETING MANAGEMENT 1	10	10	B	6,0	
MARKETING MANAGEMENT Skriftlig, intern censur <i>Written exam, Internal examiner</i>					
ORGANISATION OG LEDELSE	12	11	A	6,0	
ORGANIZATION AND MANAGEMENT Løbende evaluering, intern censur <i>Continous evaluation, Internal examiner</i>					
STATISTIK 2	7	9	C	3,0	
STATISTICS 2 Skriftlig, intern censur <i>Written exam, Internal examiner</i>					
INTERNATIONAL LOGISTIC WEEK 1	Bestået	Bestået		2,0	
	<i>Passed</i>	<i>Passed</i>			
Godkendelsesprocedure, ingen censur <i>Approval procedure, Without second examiner</i>					

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STUDIETUR 4./5. SEMESTER	Godkendt	Godkendt		2,0	
STUDY TRIP 4./5. SEMESTER	<i>Approved</i>	<i>Approved</i>			
Godkendelsesprocedure, ingen censur <i>Approval procedure, Without second examiner</i>					
AFGANGSPROJEKT					
FINAL PROJECT					
AFGANGSPROJEKT	10		B	30,0	
FINAL PROJECT					
Beslutningsgrundlag for øget kapacitet Projekt og mundtligt forsvar, ekstern censur <i>Business Case on Increasing Capacity</i> <i>Project and oral defence, External examiner</i>					
VÆRKSTEDSKURSUS					
WORKSHOP COURSE					
SKRUESTIKARBEJDE	Godkendt	Godkendt		2,0	
BENCH WORK	<i>Approved</i>	<i>Approved</i>			
Godkendelsesprocedure, ingen censur <i>Approval procedure, Without second examiner</i>					
DREJNING	Godkendt	Godkendt		2,0	
TURNING	<i>Approved</i>	<i>Approved</i>			
Godkendelsesprocedure, ingen censur <i>Approval procedure, Without second examiner</i>					
FRÆSNING	Godkendt	Godkendt		2,0	
WILLING	<i>Approved</i>	<i>Approved</i>			
Godkendelsesprocedure, ingen censur <i>Approval procedure, Without second examiner</i>					

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PLADE/SVEJSEARBEJDE WELDING AND METAL PLATEPROCESSING Godkendelsesprocedure, ingen censur <i>Approval procedure, Without second examiner</i>	Godkendt <i>Approved</i>	Godkendt <i>Approved</i>	2,0	
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CNC-PROGRAMMERING PROGRAMMING OF NUMERICALLY CONTROLLED MACHINES Godkendelsesprocedure, ingen censur <i>Approval procedure, Without second examiner</i>	Godkendt <i>Approved</i>	Godkendt <i>Approved</i>	2,0	
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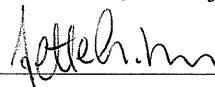
INGENIØRPRAKTIK
INDUSTRIAL ENGINEERING TRAINING

INGENIØRPRAKTIK INDUSTRIAL ENGINEERING TRAINING Godkendelsesprocedure, intern censur <i>Approval procedure, Internal examiner</i>	Godkendt <i>Approved</i>	Godkendt <i>Approved</i>	30,0	
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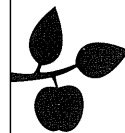
Studiet er normeret til 210 ECTS-point. Bemærk at den genererede sum af ECTS-points kan afvige fra den samlede sum på grund af afrunding.

The study is rated at 210 ECTS-points. Please notice that the rounded value of ECTS credits may differ from the actual value for a specific program.

Odense, den 26. januar 2008



Udskriftens rigtighed bekræftes
Registrar's Office



Navn,
Philippe Christian Giverholt
Åkerman

Cpr.nr.,
111282-2123

Kompetenceprofil for: Diplomingeniør i Produktionsteknik

Diplomingeniøren kan selvstændigt tilegne sig og bearbejde viden på et bredt fagligt grundlag og med et anvendelsesorienteret sigte vurdere og nyttiggøre teknisk-videnskabelige forskningsresultater. Ingeniøren indgår konstruktivt og resultatorienteret på flere organisatoriske niveauer, er i stand til at løse opgaver, omfattende økonomiske, miljømæssige og etiske aspekter og har desuden forudsætninger for livslang læring inden for sit ingeniørfaglige område, herunder som led i videre uddannelse.

Diplomingeniøruddannelsen i Produktionsteknik

Produktionsingeniøren behersker områderne planlægning, styring og industriel produktion. Har viden om produktionen, de teknologier, der ligger bag, og er trænet i at se sammenspillet mellem produkter, produktion og processer. Kan beskrive strategi, mål, produktionsopgave og strukturere produktionssystemet.

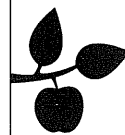
Produktionsingeniøren forstår og kan udvikle de organisatoriske og ledelsesmæssige forhold i en virksomhed med henblik på effektiviseringer, rationaliseringer, kortere lead-time og mindre kapitalbinding. Har teoretisk og praktisk baggrund til at kunne udvikle og implementere virksomhedens økonomiske og ledelsesmæssige styringssystemer.

Har indsigt i de psykologiske virkemidler, der kan anvendes i forbindelse med den daglige ledelse og projektledelse. Kender arbejdsmarkedets regler, kan arbejde selvstændigt, men også gerne i teams. Kan lede projekter og anvende de nødvendige projektledelsesværktøjer, samt beregne et projekts rentabilitet og udføre en risikoanalyse.

Odense, den 26. januar 2008

Udskriftens rigtighed bekræftes

Kun gyldig i original med universitetets prægestempel



SYDDANSK UNIVERSITET
UNIVERSITY OF SOUTHERN DENMARK

Name
Philippe Christian Giverholt
Åkerman

Civil reg.

111282-2123

Qualification profile for:

Bachelor of Manufacturing Engineering and Management

The B.Eng. can independently acquire and analyse knowledge on a broad academic basis and assess and utilise technical and scientific research results with an application-oriented approach. The engineer participates constructively and results-oriented on several organisational levels, is able to solve tasks involving extensive financial, environmental and ethic aspects, and is qualified for lifelong learning in his or her field of engineering.

Bachelor of Engineering in Manufacturing Engineering and Management

Bachelors of manufacturing engineering and management master the fields of planning, management and industrial production. They are familiar with the production and the technologies behind it and are able to see the interaction between products, production and processes. They are able to describe the strategy, aim and production assignment and to structure the production system.

Bachelors of manufacturing engineering and management understand and are able to develop a company's organisation and management with an eye to efficiency improvement, rationalisation, and reduction of lead time and tied-up capital. They have a theoretical and practical background that enables them to develop and implement the company's financial and management systems.

They have knowledge of the psychological means which can be applied in connection with the day-to-day management and project management. They are familiar with the rules of the labour market and can work independently as well as in teams. They are able to manage projects and apply the necessary project management tools and to estimate the profitability of the project and perform risk analysis.

Odense, den 26. januar 2008

Registrar's Office

This document is official only in the original, bearing the University's embossed stamp

Diploma Supplement

This Diploma Supplement follows the model 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, an explanation should give the reason why.

1. Holder of Qualification

- 1.1 Family name(s): Åkerman
1.2 Given name(s): Philippe Christian Giverholt
1.3 Date of birth: 11 December 1982
1.4 Civil registration number 111282-2123

2. Qualification

2.1 Name of qualification and title conferred

B.Eng. (Bachelor of Engineering)

2.2 Main fields of study

Mathematics, Communication, IT, Material science, Technological processes, Logistics, Accounting and Management. Specialisation in Manufacturing, Logistics and Management.

2.3 Name and status of awarding institution

Syddansk Universitet/University of Southern Denmark. The University of Southern Denmark is a state-recognised and state-financed higher education institution, regulated according to the Ministry of Research University Act of May 28th 2003.

2.4 Name and status of institution administering the study

Not applicable.

2.5 Language(s) of instruction/examination

Danish and English

3. Level of Qualifications

3.1 Level of qualifications

A medium cycle professional HE qualification normally requiring a total of 3½ years of full-time higher education studies including 6 months' industrial engineering training in either a domestic or foreign company.

3.2 Official length of programme

3½-year B.Sc. = 210 ECTS credit points.

3.3 Access requirement

Acceptance to the Bachelor of Manufacturing Engineering and Management requires a completed upper secondary school leaving examination or comparable qualifications. In addition to this, acceptance also depends on a high level in the subjects Mathematics, Physics and Chemistry.

4. Contents and Results Gained

4.1 Mode of study

Full time study programme, equivalent of 210 ECTS credit points

4.2 Aim of programme

The programme aims to educate engineers of high quality. The graduates are able to combine research, science, technology, management and practical implementation in their career. The first year of this course concentrates on basic subjects such as Communication, Mathematics, Environmental Studies, Physics and IT. The course then concentrates on three main areas: Manufacturing, Finance and Accounting, Management and Logistics. The course also includes tuition in such subjects as ERP-systems, Supply Chain Management, Graphical Communication, Statistics, Environmental Studies as well as Human Resource Management and Communication. The students spend their fifth semester in industrial engineering training. During the course students have the opportunity to specialise in the field of Manufacturing, Logistics and Management. In the final semester, the students (often in groups of 2) make a project with and within a manufacturing company, where they solve an actual industrial problem, which enables the students to practice engineering routines, use available information, and account for scientific, technical, economic and social aspects.

4.3 Programme details and individual grades/marks/credits obtained

Please refer to the grade transcript in the diploma.

4.4 Grading scheme and if applicable grade distribution information

Please refer to the explanatory grading scale.

4.5 Overall classification of the qualification, i.e. honours degree, first class etc

Not applicable for Danish qualifications.

5. The applicability of the Qualification?

5.1 Access to further study

A Bachelor of Manufacturing Engineering and Management gives general access to M.Sc. studies. Specific admission is subject to approval by the institution.

5.2 Professional status

The Bachelor of Engineering qualifies the candidate for handling - nationally and internationally - industrial functions, where technical research achievements in combination with other sciences are converted to practical application by solving consultancy, development and operational problems. Apart from this, the education enables the candidates to impart technically complicated problems to persons with a different academic and cultural background, and enter into interdisciplinary collaboration with management relations.

6. Additional Information

6.1 For further information

Information in English on the University of Southern Denmark (study programmes, contents of the programmes, research, faculties and departments) is available at the University's website www.sdu.dk or from the Registrar's Office, Campusvej 55, 5230 Odense M, phone +45 65 50 10 00, e-mail: studie@sdu.dk. General information on higher education in Denmark can be obtained from The Danish Ministry of Education at www.uvm.dk, The Ministry of Science, Technology and Innovation at www.vtu.dk or from The Danish Rectors Conference at www.rks.dk.

6.2 Institutional information

University of Southern Denmark is a research-based university founded in 1998. University of Southern Denmark is a merger of the former Odense University, Southern Denmark School of Business and Engineering and the South Jutland University Centre. In 2006 the university merged with the Odense University College of Engineering. The university now enrolls more than 15000 full time students (bachelor and master programmes), more than 3500 part time students and more than 450 Ph.D. students. These figures do not include more than 1000 foreign students and exchange students. The university has a staff of approximately 2500 full-time equivalents. More than 1100 are researchers as well as part of the teaching staff. The University of Southern Denmark has five faculties - the Faculty of Humanities, the Faculty of Social Sciences, the Faculty of Health Sciences, the Faculty of Science and the Faculty of Engineering.

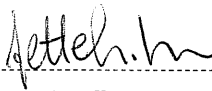
The university has been awarded the Diploma Supplement Label.

The University of Southern Denmark strives to be an international orientated university with a strong local commitment and is based in four local campuses in the region. The main campus is situated in Odense. The university has a long tradition for strong research based education at bachelor and master level, but also focuses on continuing education and do offer a number of summer courses every year, presenting the latest research. In addition, the university has an extensive Open University department offering part time courses, specially designed programmes and applied courses.

At the University of Southern Denmark basic as well as applied research are given high priority. Funding comes from the Government, from Danish and international research funds and from co-operation with business corporations, local authorities and municipalities.

7. Certification of the Supplement

University of Southern Denmark, 26 January 2008



Registrar's Office

International Qualifications

Holder of the Qualification

Family name(s): Åkerman

Given name(s): Philippe Christian Giverholt

Date of birth: December 11th 1982

Civil registration number: 111282-2123

The Qualifications

Courses at University of Southern Denmark taught in English

X-ILW1-E01 International Logistic Week 1

University of Southern Denmark emphasizes internationalisation and strives to add an international dimension to all our programmes. This diploma supplement sums up the international qualifications obtained by the individual student.

The qualifications are divided into four categories:

- Industrial engineering training with a company outside Denmark
- Courses at University of Southern Denmark taught in English
- International study period(s) at an engineering college or university abroad
- Other international activities

The individual student may have obtained international qualifications by participating in one or more activities within one or more of these categories.

Karakterskala for eksaminer bedømt før 1. september 2007

Karakterskala (13-skala)

- 13: For den usædvanlig selvstændige og udmærkede præsentation.
- 11: For den udmærkede og selvstændige præsentation.
- 10: For den udmærkede, men noget rutineprægede præsentation.
- 9: For den gode præsentation, der ligger lidt over middel.
- 8: For den middelhøje præsentation.
- 7: For den ret jævne præsentation, der ligger lidt under middel.
- 6: For den netop acceptable præsentation.
- 5: For den usikre og ikke tilfredsstillende præsentation
- 03: For den meget usikre, meget mangelfulde og utilfredsstillende præsentation.
- 00: For den helt uantagelige præsentation

Grading scale for examinations assessed before september 1th, 2007

The grading scale (13-point scale)

- 13: is given for the exceptionally independent and excellent performance *)
- 11: is given for the independent and excellent performance
- 10: is given for the excellent but not particularly independent performance
- 9: is given for the good performance, a little above average
- 8: is given for the average performance
- 7: is given for the mediocre performance, slightly below average
- 6: is given for the just acceptable performance
- 5: is given for the hesitant and not satisfactory performance
- 03: is given for the very hesitant, very insufficient and unsatisfactory performance
- 00: is given for the completely unacceptable performance

*) The grade 13 is used very seldom and then only for an extraordinary performance

Konverteringsskala/conversions scale

13-skala / 13 point scale	13	11	10	9	8	7	6	5	03	00
7-trins skala / 7 point scale	12	12	10	7	7	4	02	00	00	-3

Examinations and diplomas

All examinations at Danish higher education institutions are administered not only by the teacher, but also by an examiner who often is external. The examiners are responsible for assuring the same standard for all examinations and thus their quality. After completion of a full programme, the student is awarded a diploma and a transcript.

The 7-point grading scale

The grading system used in all state-regulated education as from August/September 2007 is the 7-point grading scale. The grading scale is compatible with the ECTS grading scale.

The 7-point grading scale		The ECTS grading scale
12	For an excellent performance displaying a high level of command of all aspects of the relevant material, with no or only a few minor weaknesses	A
10	For a very good performance displaying a high level of command of most aspects of the relevant material, with only minor weaknesses.	B
7	For a good performance displaying good command of the relevant material but also some weaknesses.	C
4	For a fair performance displaying some command of the relevant material but also some major weaknesses.	D
02	For a performance meeting only the minimum requirements for acceptance	E
00	For a performance which does not meet the minimum requirements for acceptance	Fx
-3	For a performance which is unacceptable in all respects	F

Apart from the 7-point grading scale, pass/fail assessment may also be used. 02 is the minimum grade for passing an exam.

The performance of the student must be assessed according to the academic targets set for the specific subject or course (absolute grading method). The relative grading method must not be used.

