



Ministry of Education and companies from Estonia

Study trip to Denmark

“Work based learning and Danish VET System”

30NOV15 – 02DEC15

CELF – presentation team



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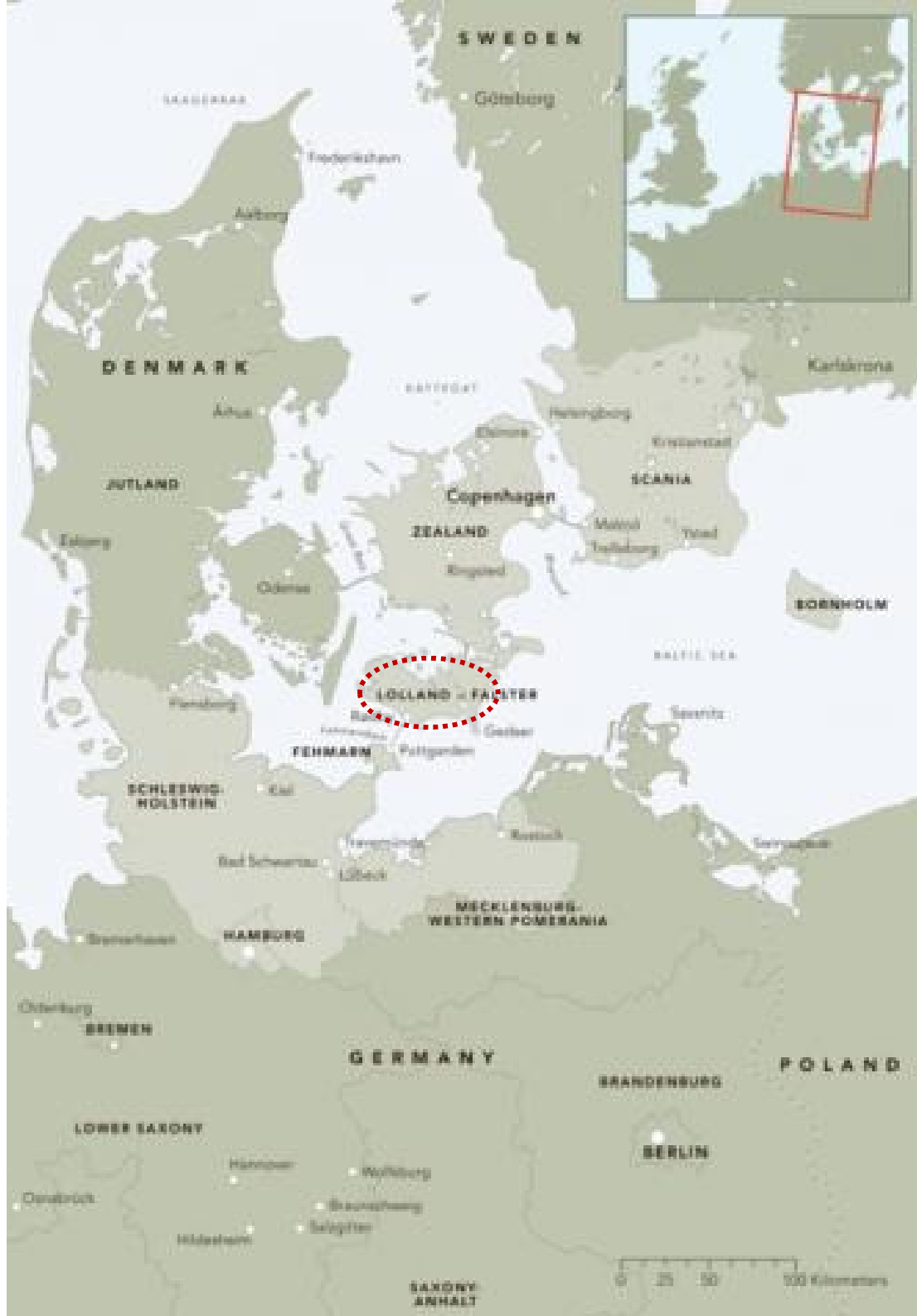


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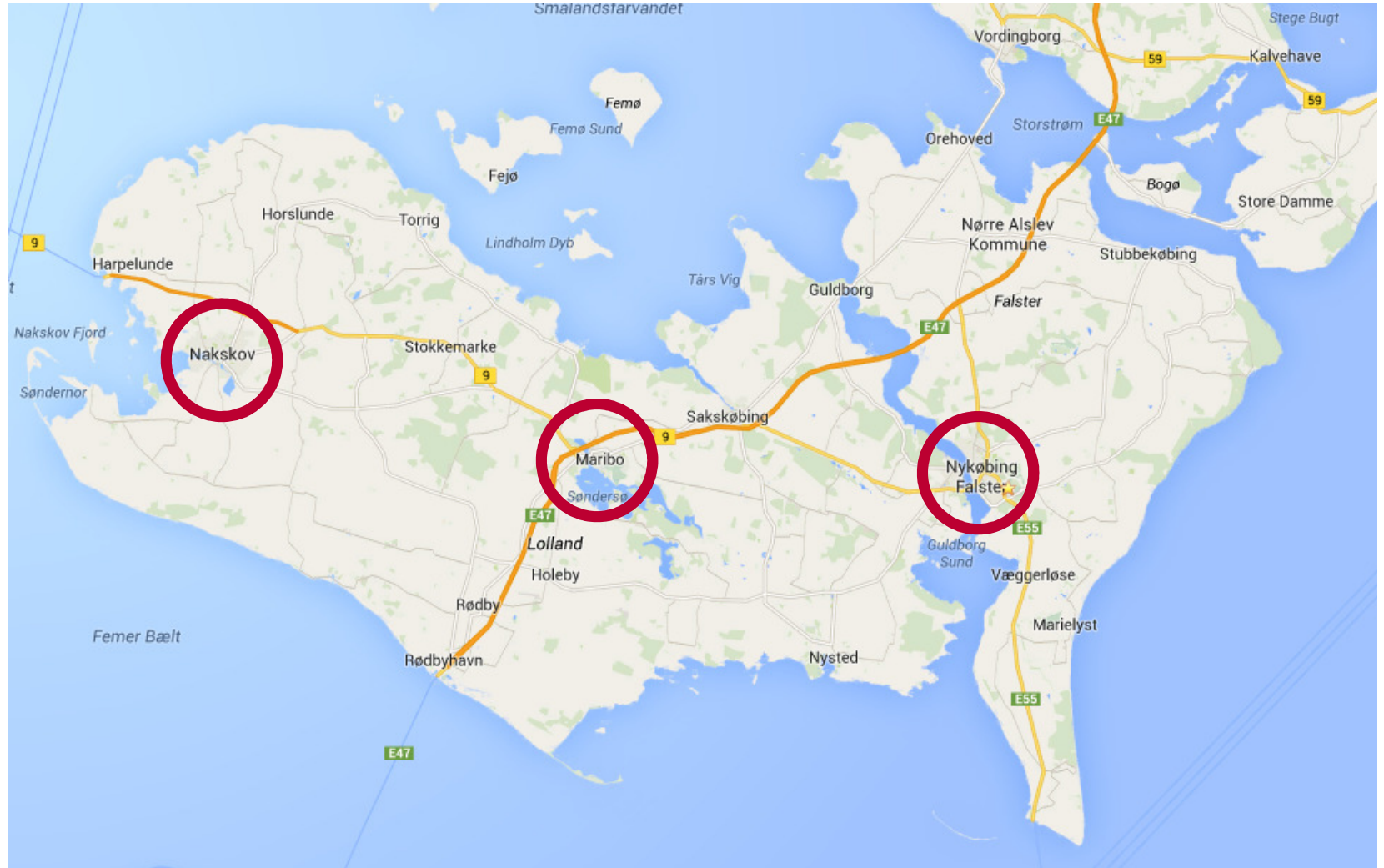




Where to find us!

CELF are localized

in NAKSKOV, MARIBO AND NYKØBING

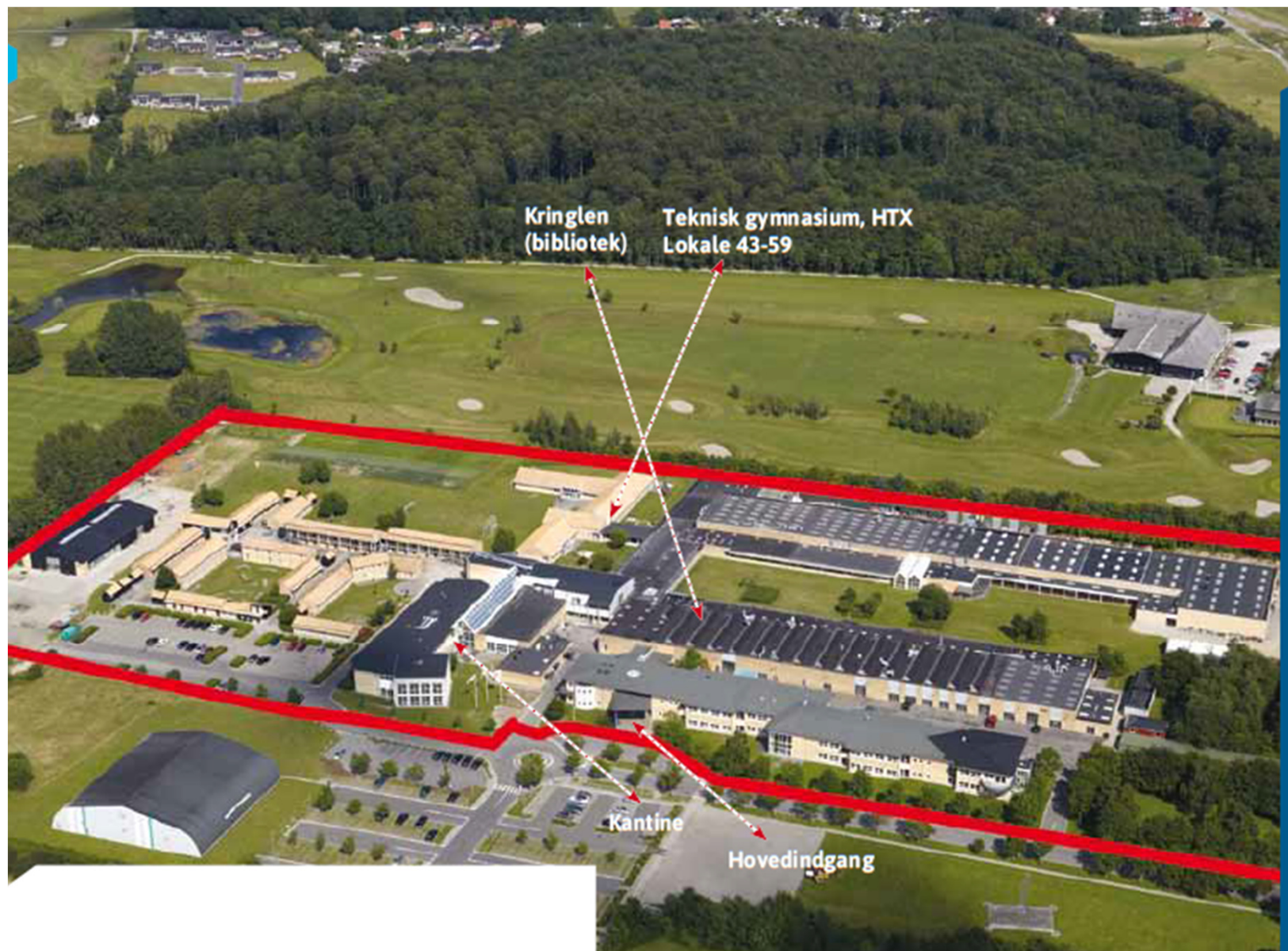


CELF

Kringelborg Alle, Nykøbing Falster



CELF Nykøbing Falster



CELF Nakskov



CELF Business School



CELF – facts and figures

- 4 main subject areas
- 21 vocational educations basic and main courses
- 2 upper secondary educations
 - Business, HHX – Higher Commercial Examination
 - Technical, HTX – Higher Technical Examination
- A wide range of adult and continuing education courses.
- 6,000 students annually. Approx 2,400 studentyears.
- 350 employees
 - 2/3 pedagogical employees
 - 1/3 Administrative employees
- 260 mDKK revenue.
- 65,000 m² under roof
- 166 beds in the school home in Nykøbing Falster



CELF – mission and vision

CELF's mission is:

To develop and implement education for the benefit of the individual, business and society

CELF's vision is:

- satisfied customers
- satisfied employees
- good economy



CELF Values

CELF behavior signals:

- cooperation
- dialogue
- respect

Organizational direction:

- innovation
- recognition
- resource awareness





CELF strategies 2012-2017

- Experience Economy
 - Electric vehicles
 - Foreign language and cultural understanding
- Transport and logistics
 - Network with respect to TL
 - Development of transportation programs
- Femern Belt and Baltic Sea region
 - Ready for new opportunities / from unskilled to skilled worker
 - Foreign language and cultural understanding
 - Apprenticeship Centre activities
- Climate and energy
 - Transverse basic course projects.
 - Energy Education
- Educational development
 - Maintaining, pedagogy and quality
 - Use of IT
 - Internationalization
- Organization of Teaching
 - Shopping Communities.
 - Behavior Campaign (energy-saving).
- Business Development
 - Practical training in retail and competence center.
 - Competence Centre / night school / youth school deals
 - Gastronome main course



Education on CELF



Vocational Education and Training (4 main subject areas)

TECHNOLOGY, BUILDING AND TRANSPORTATION

- *Motor vehicle, aircraft and other means of transport*
 - Bicycle mechanic, motorcycle mechanic, construction and agricultural machinery mechanic, car bodywork repairer, car mechanic, boat mechanic.
- *Building and construction*
 - Concreter, paver, bricklayer, carpenter, floor layer, aluminium fitter, thatcher, wall ceiling and unit installer, plumber.
- *Production and development*
 - Plant operator, industrial technician, metal smith, technical designer, industrial machine operator
- *Transport and logistics*
 - Bus and coach driver, storage & logistics/storage & transport, heavy goods vehicle driver
- *Electricity, management and IT*
 - Automation and process control technician, data technician/IT supporter, electrician, electronics and communication engineering, frontline PC supporter.

FOOD, AGRICULTURE AND EXPERIENCES

- *Animals, plants and nature*
 - Landscape gardener, animal keeper, greenkeeper, farmer, production manager, business manager, agrarian economist.
- *Human food*
 - Baker and cake and pastry baker, retail butcher, catering assistant, cook, receptionist, waiter.

OFFICE, TRADE AND BUSINESS SERVICE

- *Business (commercial school)*
 - Retail trade, event coordinator, financial assistant, clerical assistant, commercial/business training,

CARE, HEALTH AND PEDAGOGY

- *Care and health*
 - Service assistant (care)
 - Dental assistant (health)

Upper Secondary Education Programmes

Higher Commercial Examination (HHX)
and
Higher Technical Examination (HTX).

Adult and Higher Education

Courses and continuing education and training:
Adult and continuing vocational training (AMU),
inspection training courses, occupational
health and safety, etc.

Academy profession programmes

Academies of professional higher education offer
academy profession programmes of 90-150 ECTS in
fields such as business, technology and IT.

The board of directors

Chairmen:

Formand: Afdelingsformand Niels Henriksen, 3F Region Sjælland.

Næstformand: Salgsdirektør, Klaus Nørholm Jørgensen, Dansk Industri

Executives committee:

Udover formand og næstformand:

- Politisk sekretær Søren Christensen, HK
- Direktør Jørgen Stub Petersen, Dansk Erhverv
- Adm. direktør Michael Bang som sekretær.

Board members:

- Claus Ebbe, Dansk Metal
- Dennis Fridthjof, Dansk El Forbund
- Steen Koch Rasmussen, Dansk Byggeri
- Linnéa Treschow, GLS-A
- Peter Madsen, Region Sjælland
- Janne Hansen, Guldborgsund Kommune
- Kent W. Nielsen, medarbejderrepræsentant CELF
- Derek Curry, medarbejderrepræsentant CELF uden stemmeret
- Emma Z. Larsen, elevrepræsentant CELF med stemmeret
- Emma Klinke, elevrepræsentant CELF uden stemmeret



ORGANISATION



Michael Bang
Adm. direktør



Bodil Jørgensen
Kvalitetschef



Henrik Dyrehave Rasmussen
Direktør



Søren Vikkelse
Direktør



Kim Normand
Direktør



Kurt Henriks
Økonomi og personale



Claus Ring Rasmussen
IT



Peer Lundquist
Bygninger



Claus Westerholt
Skolehjem
Kantine



Marianne Stark
Miljø



Dorte Tornøe
Biblioteker



Claus Pedersen
Uddannelseschef

Erhvervsuddannelser
EUX Teknisk
Struktor, vvs energi, murer, tømrer,
elektriker, automatiktekniker,
IT-supporter, teknisk designer,
industrioperatør, cykelmekaniker,
motorcykelmekaniker, personvogts-
mekaniker, læstovgsmekaniker,
bådmekaniker



Lars Nissen Holm
Uddannelseschef

Erhvervsuddannelser
grundforløb 1, EUX Teknisk,
ernæringsassistent, bager og konditor,
detailslagter, kok/gastronom, tjener,
landmand, dyrepasser, anlægsgartner,



John Rasmussen
Pædagogisk
udviklingschef

Pædagogisk udvikling



Peter Bondo
Elevchef

Fastholdelse og trivsel



Carsten Eriksen
Uddannelseschef

Gymnasium
Handelsgymnasiet Lolland-Falster
Teknisk gymnasium Lolland-Falster

Erhvervsuddannelser
EUD Business, EUX Business, EUX Teknisk,
læger og terminal, tandklinikass., serviceass.,
industrioperatør, industriteknik., smed,
teknisk designer,



Helle Holst
Rektor/
Uddannelseschef

Gymnasium
Handelsgymnasiet Lolland-Falster
Erhvervsuddannelser
EUD Business, EUX Business
Karrierecentret



Bo Rasmussen
Rektor

Gymnasium
Teknisk gymnasium Lolland-Falster



Charlotte Maegaard
Kristiansen
Markeds- og praktikchef

Salg og markedsføring
Praktikcenter
Kursusafdeling



Svend Erik Jessen
Chef for internationalisering
og projektchef

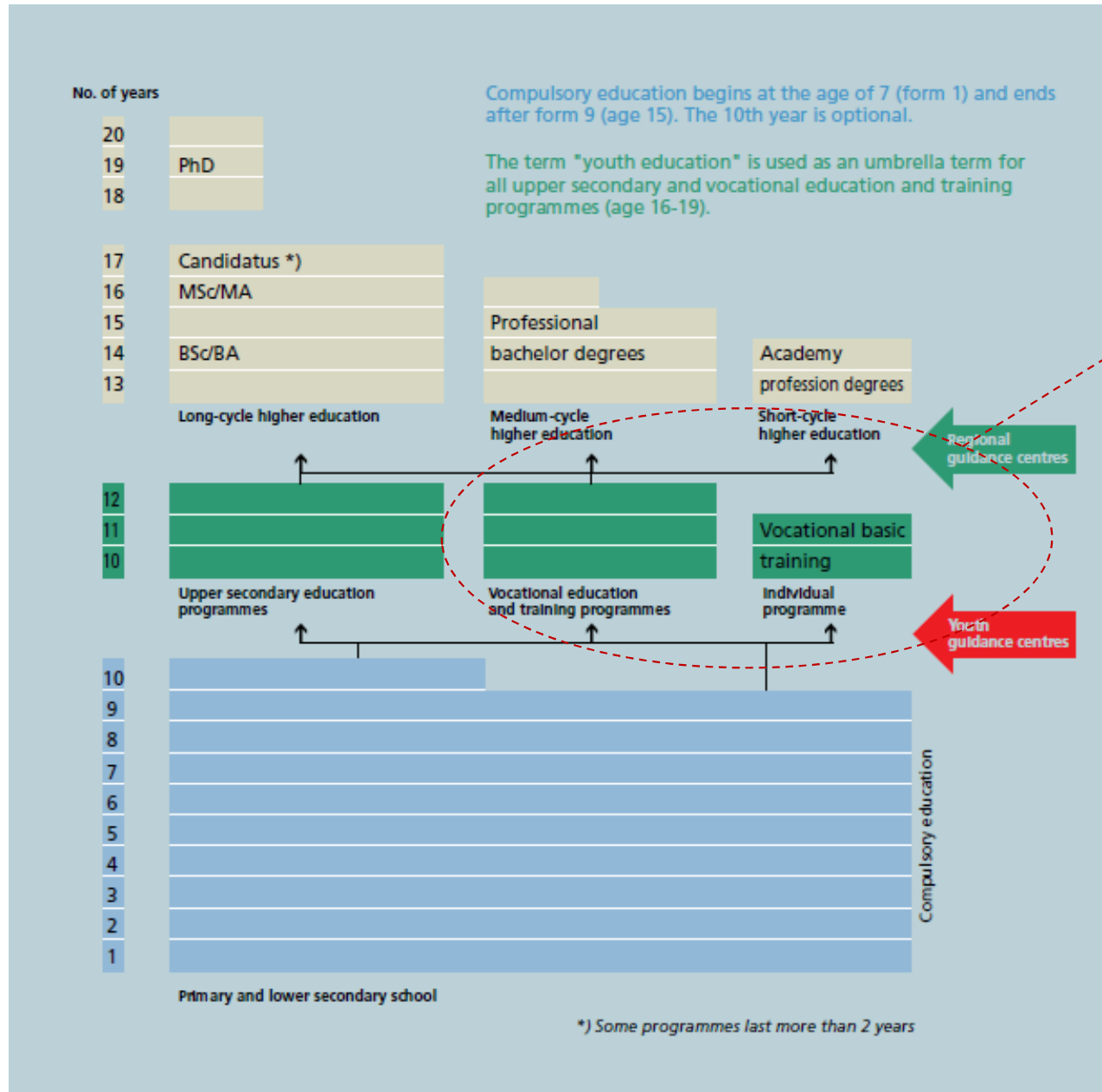
Projektsekretariat
Internationale aktiviteter



Glen Polano
Strategileder

Strategiafdeling

Danish Education system



Danish
apprenticeship
programme
(VET)

Danish facts and figures

A light blue map of Denmark is positioned in the background of the text. The map shows the main island of Zealand and the surrounding islands, including the Faroe Islands and Greenland.

Population: 5.535 million; approx. 1.1 % of the total EU population (2010/11)

Young people (12 – 24 years): 810.087 (2011)

Percentage of a year group moving on from compulsory education to youth education: 97% (2008)

Percentage of a year group completing a youth education programme: 81% (2008)

Percentage of a year group continuing into higher education: 55% (2008)

Percentage of a year group completing a higher education programme: 47 % (2008)

Labour force (16 – 64 years): 2,650,000; 52% men, 48% women (2009)

Unemployment rate: 6.1 % (2011)

Unemployment rate (16-24 years): 5.1% (2011)

Unemployment rate (25-29 years): 9,2% (2011)

Danish Education system

Further Information

The Danish education system:
www.eng.uvm.dk

Studying in Denmark:
www.StudyIndenmark.dk

Working in Denmark:
www.WorkIndenmark.dk

The Euroguidance Centre in Denmark:
www.lu.dk/euroguidance (in Danish) or
www.lu.dk/euroguidance-en (in English)

Enquiries concerning guidance in Denmark
may be addressed to:
euroguidance@ul.dk

The Euroguidance network:
www.euroguidance.net

The European Lifelong Guidance Policy Network:
<http://ktl.jyu.fi/ktl/elgpn>



Management principles

The carrying value is appreciative leadership

We believe in:

- The visions force
- The strength of our successful experience
- Each other's positive contributions and intentions

Therefore we will:

- Always invite to dream
- Recognize and be aware of what we are good at
- Requesting each other's contributions



Stakeholders VET

The Danish Parliament (Folketinget)

- Decides general framework for management, structure and objectives

The school

- Helps students get training agreement.
- Responsible for theoretical part of education



The Companies

- Offer training agreements
- Responsible for reaching the objectives in the main course

Ministry of Education

- Appoints council for vocational training
- The council advice on for example structure and content

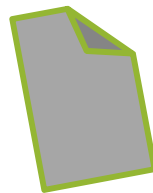
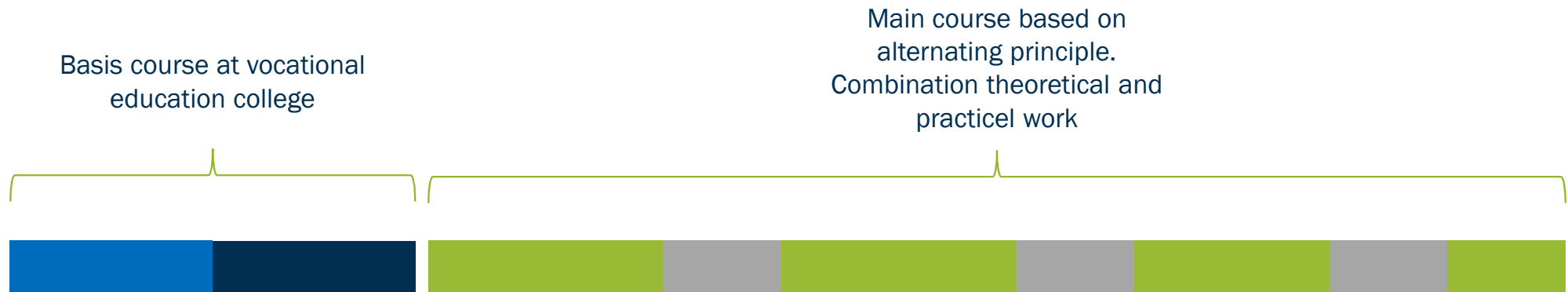
The Trade Committees

- Lay down the detailed content of the education and training programmes
- Approve companies for apprenticeships

Local Education Committees

- Advise the schools about planning and helps develop cooperation with local trade and industry

Principle of the Danish apprenticeship programme (VET)



Student must have training agreement with approved company or be accepted into schoolbased practical training center



Vocational education college – basis course part 1



Vocational education college – basis course part 2



Vocational education college – theoretical training - main course



Approved company – practical training - main course

Apprenticeship



Ta ´en elev - vi gr det nemt!

Apprenticeship Center at CELF- help businesses and students

Consultancy on all practical formalities, including internships abroad.

Help to fill in the training agreement.

Information on grant opportunities.

Assists in the administration.

The challenges

- Preparing the students for worklife
- Guiding young people into the right branches
- Matching student and company
- Motivating students to seek apprenticeships in a geographical larger area



Exampels of objectives

Metal worker specialising in stainless metals (UK version)

WORK AREAS (within which the company will be able to place trainees) - Tick off the appropriate	
Pipe constructions	
Steel section constructions	
Sheet constructions over 3 mm	
Sheet constructions under 3 mm	
Steel constructions	
Stainless steel constructions	
Aluminium constructions	
Plumbing/industrial piping	
Building smith work	
Stable fittings (manufacturing and installation)	
Tractor repair	
Repair of agricultural machinery	
For welders	
Electrode welding	
TIG-welding	
MIG/MAG-welding	
Gas welding	

COMPANY'S EQUIPMENT - Tick off the appropriate	
CNC-sheet metal processing machine	
Pillar/bench drill press	
Cold saw/cutter	
Pillar/bench grinder	
Sheet metal folder	
Edging press	
Flat bar shears	
Angle iron shears	
Pipe bending machine	
Thread cutting machine	
Gas welding/cutting equipment	
MIG/MAG welding machine	
TIG welding machine	
Welding robot	
Plasma cutter	
Flame cutter	
Sheet roller	
Lathe	
Hydraulic press	

Car mechanic curriculum

	A	B	C	D	E	F	G	H	I	J
1	Mechanic									
2										
3	Lecture plan for 1. and 2. mechanic level									
4										2012
5										
6										
7										
8		Lekt.	H 1	H 2	3 H	H 4	5 H	H 6	H 7	
9	Main Program Step 1 technician level									
10	Entrepreneurship and Innovation	37		18	18					
11	Auto Environment	37	12	12	12					
12	Technical Communications - foreign language 1	37	20		16					
13	Customer service	19		18						
14	Repairs and testing of brakes	55	55							
15	ABS brakes	19	19							
16	Rapir of clutch	19		19						
17	Repair of driveshaft	18		18						
18	Inspection and repair of steering and suspension	92		92						
19	Inspection and repair of motor 1 mechanic	58			58					
20	Servicing of aircondition	19	19							
21	Windscreen replacement and repair of windscreen	18			18					
22	Inspection and control of lighting, flashlight, wiper / washer and battery	37		8	29					
23	Troubleshooting on electrical systems	37	23		17					
24	Roadworthy control	37	37							
25		539								538

Car mechanic curriculum

26	Main Program Step 2 mechanic level								
27	<u>Technological development and innovation</u>	18				18			
28	Technical Communications - <u>foreign language 2</u>	18			18				
29	The international labour <u>market</u>	18					18		
30									
31	<u>Brakes:</u>								
32	Inspection and repair of passenger cars, ABS and ESP systems	55					55		
33	<u>Transmission:</u>								
34	Inspection and repair of transmission systems	74					74		
35	<u>Steering and suspension</u>								
36	Measurement, repair and adjustment of electronic power steering	37						37	
37	<u>Petrol and diesel engine cars</u>								
38	Inspection and repair of motor 2	56			56				
39	Checking and repairing petrol injection- and ignition system	74			40	34			
40	Inspection and repair of diesel injection systems	74				40		34	
41									
42	<u>Comfort and safety</u>								
43	<u>Repair</u> of comfort items	37						37	
44	Troubleshooting and repair of air conditioning	37				37			
45	Repair of airbag system	19						19	
46	<u>Electrical systems on cars</u>								
47	Advanced Troubleshooting of electronic systems in cars	56				40	10	6	
48	Troubleshooting and repair of starter and battery charging system	37			37				
49	<u>Quality and service in the workshop</u>								
50	IT at the workshop	18			18				
51									
52		628							628

Car mechanic curriculum

59	Main Program Step 2 (optional specialization 2 weeks)									
60	Transmission									
61	Repair of automatic transmissions	37								
62	Service 4-wheel drive	18								
63	Petrol and diesel engine cars									
64	Inspection and repair of engine management systems	37						25	5	
65	Diagnosis and emission systems - Gasoline module 1	37								
66	Diagnosis and emission systems - Diesel Module 2	37								
67										
68	<u>Comfort and safety</u>									
69	Inspection and repair of engine and cabin	19							12	
70	Troubleshooting and distance control and cruise Control (ACC)	18								
71	<u>Electrical systems on cars</u>									
72	Troubleshooting and repair of lighting	19					5		3	
73	Troubleshooting and repair of wiper / washer systems	19								
74	Troubleshooting and repair of flashlight- horn systems	19								
75	Safe Handling of electric-powered and hybrid vehicles	37							24	
76	Electric and hybrid technology	37								
77	Quality and service in the workshop									
78	<u>Assessment of used car</u>	18								
79	Customer service	37								
80	Technical innovation	37								
81										
82		426								74

Car mechanic curriculum

83	Optional Step 1. mechanic level								
84	Electronic <u>measurement technology</u>	9			9				
85	Mechanical <u>measuring technology</u>	8			8				
86	Elective Step 2 - main course mechanic level								
87	Electronic <u>measurement technology</u>	19			16		3		
88	Mechanical <u>measuring technology</u>	19				11		8	
89									
90		55							55
91									
92									
93	Mechanic apprenticeship runs on H8								
94									1295
95	Hours total attending school at each of 5 weeks		185	185	185	185	185	185	
96									
97									

Car mechanic curriculum

Week	Step 1 Mechanic H1 Issue 1	Theory	workshop
1	Brake Control, repair and testing of cars brakes - Separation of hydraulic brakes including calipers and wheel cylinders. The drum / disc brakes, brake booster, brake regulator. Brake. Mechanical and electrical parking brakes. Brake fluid. Testing brakes on a roller brake tester. - Auto Environment. - Technical communication - foreign language.	29 4 4	
2	Brake Control, repair and testing of cars brakes - Separation of hydraulic brakes including calipers and wheel cylinders. The drum / disc brakes, brake booster, brake regulator. Mechanical and electrical parking brakes. Brake fluid. Testing brakes on a roller brake tester. - Auto Environment. - Technical communication - foreign language.	4 4	29
3	Brakes ABS brakes - ABS-system structure and function, read and delete error codes Bleded brakes using diagnostic tester, check wheel sensor with a scoop. Electrical Systems Troubleshooting on electrical systems - Electric Basis knowledge about voltage, Ampere and Resistance, power and serial and parallel connections. - Electric diagrams and the voltage measurement, working on and understanding electric wire diagram. - Auto Environment - Technical communication - foreign language.	8 13 1 4	11
4	Electrical Systems Troubleshooting on electrical systems - Electric Basis knowledge about voltage, Ampere and Resistance, power and serial and parallel connections. - Electric diagrams and the voltage measurement, working on and understanding electric wire diagram. Safety control - Servicing according to the service schedule. Output of error codes and reset service indicator. Customer service and the proper management the customer's car. Preparing for Road worthy control. Waste disposal - Technical communication - foreign language.	23 4	10
5	Safety control - Servicing according to the service schedule. Output of error codes and reset service indicator. Customer service and the proper management the customer's car. Preparing for Road worthy control. Waste disposal Air Conditioning - Control and service, emptying and filling, replacement of the filter. Refrigerants, oil and tracer. Safety, pressure and atmospheric emissions, environment effects, and waste disposal. - Technical communication - foreign language.	5 8 4	9 11

Eksample
5 weeks
school period