Draft Paper

The future of preparatory training leading to a trade or an occupation

A question of partnership, autonomy and evaluation

Direction de la planification et du développement Ministère de l'Éducation, du Loisir et du Sport

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Overview of vocational and technical training

Context of the study

Describe the sharing of responsibilities among training programs authorities for programs leading to a trade or an occupation offered in an educational environment or in the workplace

States under study

- Lithuania, for the European Union
- Quebec, Ontario and Massachusetts, for North America



A few background elements

In Quebec

- Demographics
- Regionalization
- Partnership
- The development of VTT in Quebec with two reforms to VT and TT

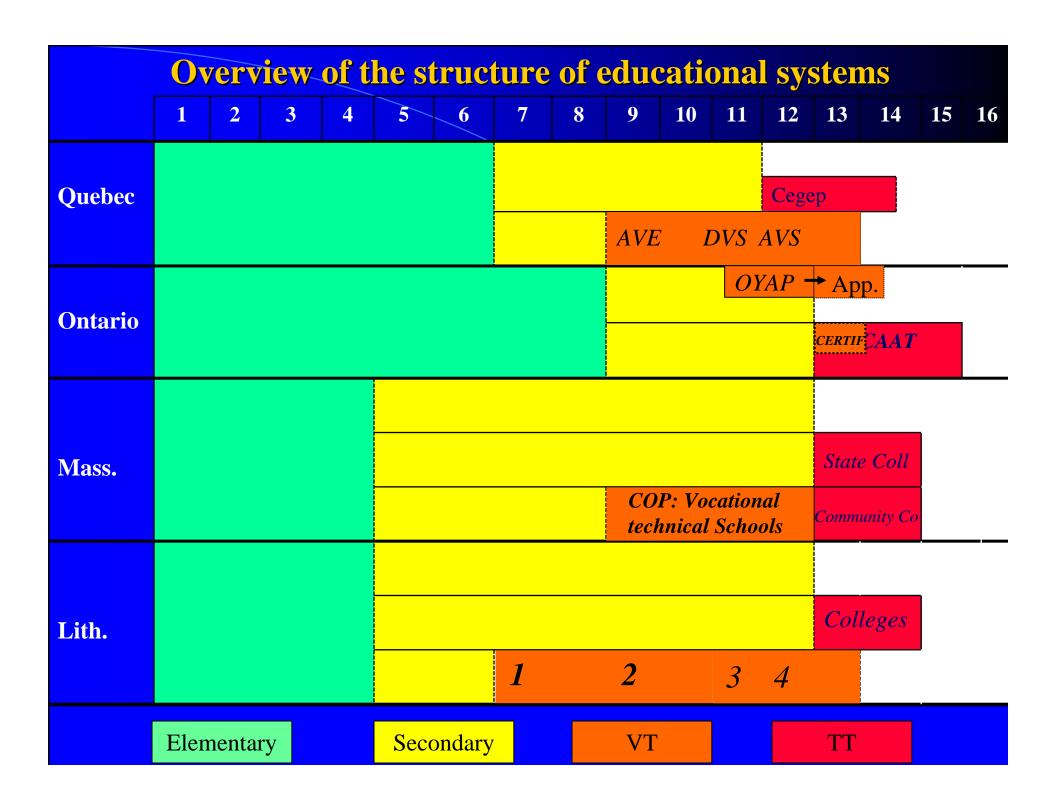
> Reasons...

- Ontario
- Massachusetts
- Lithuania?

Aspects considered in the study

- 1. Structure of educational systems
- 2. Occupational qualifications model
- 3. Continuity between training paths
- 4. Development of programs of study
- 5. Evaluation of programs of study
- 6. Evaluation of learning

1 Structure of educational systems



Organization of vocational and technical training

		Name	Number	Diplomas	
Quebec (7.2 M)	VT	Vocational Training Centres	70 boards 169 centres	AVE, DVS, AVS	
	TT	Cegeps	48	DCS, ACS	
Ontario (12 M)	VT	School Boards	72 SB	SSD: Pre-employment path 05 apprenticeship programs	
	TT	CAAT College of Applied Art and technology	25	Certificate (1 year) Diploma (2 or 3 years)	
Massachusetts (6.3)	VT	Vocational Technical Schools	200	Certificate of Occupational Proficiency	
	TT	Community College	15	Certificate (1 year) Associate degree and Technical trade (2 years)	
Lithuania (3.5 M)	VT	Vocational Schools	80	Qualification Certificate Qualified Worker's Diploma	
	TT	Colleges	25	Higher Education Diploma, Specific Qualification and Qualified Worker's Diploma	

Centralized management bodies responsible for VTT

- In Lithuania: (2 ministries)
 - Education and Sciences
 - Social Security and Labour
- Massachusetts: (3 bodies)
 - Massachusetts Department of Education
 - Massachusetts Board of Higher Education
 - U.S. Department of Labor
- Ontario: (1 ministry)
 - Ministry of Training, Colleges and Universities

In Quebec

- > 2 ministries:
 - Éducation, Loisir et Sport (MELS)
 - Emploi et Solidarité sociale (MESS)

2 Occupational qualifications models

The notion of occupational qualifications model

Definition

 Set of functional links between needs for initial training and continuing training of the workforce and the means provided within a given state to fill these needs

Components

- Occupational activity reference system
- Training reference system
- Evaluation reference system

Components of an occupational qualifications model

Occupational activity reference system

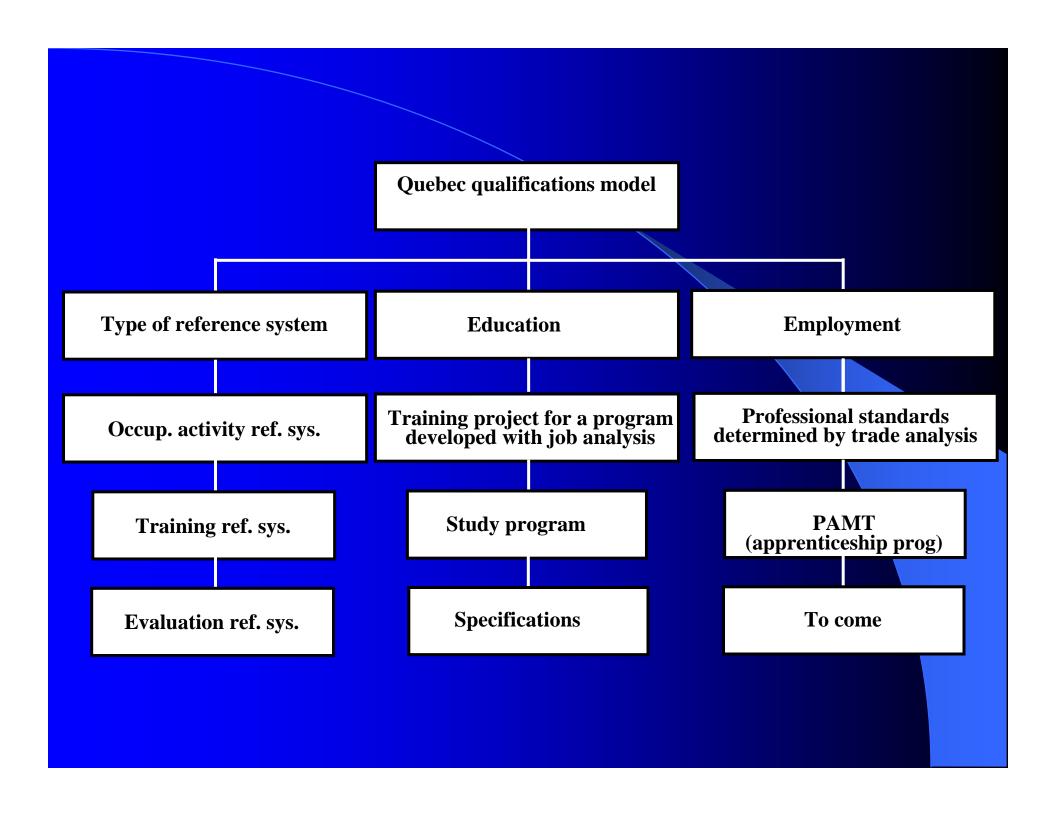
Defines the set of responsibilities and tasks specific to an occupation and the skills required to perform it

Training reference system

Corresponds to a study program in the educational network or a learning program or upgrading activities within the workplace

Evaluation reference system

Refers to the accuracy of evaluation criteria or the specification of learning



Occupational qualifications model used in Lithuania

Training offered within the educational network

Training offered in the workplace

Occupational activity ref. system

Job Profile

Training reference system

Vocational Education and Training Standard

Standard for Qualification

Evaluation reference system

Qualification Requirement

Training programs offered in schools

Training programs offered in the workplace

Occupational qualifications model used in Ontario

Training offered within the educational network

Program standards defined by the Ministry of Training, Colleges and Universities (MTCU)

Occupational activity ref.

system

Training reference system

Evaluation reference system

Training offered in the workplace

Apprenticeship standards defined by Ontario's sectoral committees

Professional standards of the Red Seal Program defined by sector councils of **HRDC**

Apprenticeship programs developed by the sectoral committees and the MTCU

Evaluation by the sectoral committees and the MTCU Apprenticeship programs developed by the sectoral committees and the MTCU

Evaluation by the sectoral committees and the MTCU

Learning evaluation process developed by the colleges

Study programs developed by the

colleges

Occupational qualifications model used in Massachusetts

Training offered within the educational network

Training offered in the workplace

Colleges in accordance with requirements set by the *Board of Higher Education*

The Department of Labor and Workforce Development

Occupational activity ref. system

Training reference system

Evaluation reference system

Educational institutions

Occupational activity ref. system

Training ref. sys. (theoretical component)

Evaluation reference system

Educational institutions

Training ref. sys. (practical component)

Evaluation reference system

Labour market partners

Comparison of occupational qualifications models in the education system and the workplace

In Europe

Use of a *single* occupational activity reference system to develop the training reference systems and to define common evaluation reference system

In North America

Use of different occupational activity reference systems to develop distinct training and evaluation reference systems

3 Continuity between training paths

Continuity between training paths

Definition of the concept

 Potential for individual to advance from one order of education to another to continue studies within the same speciality

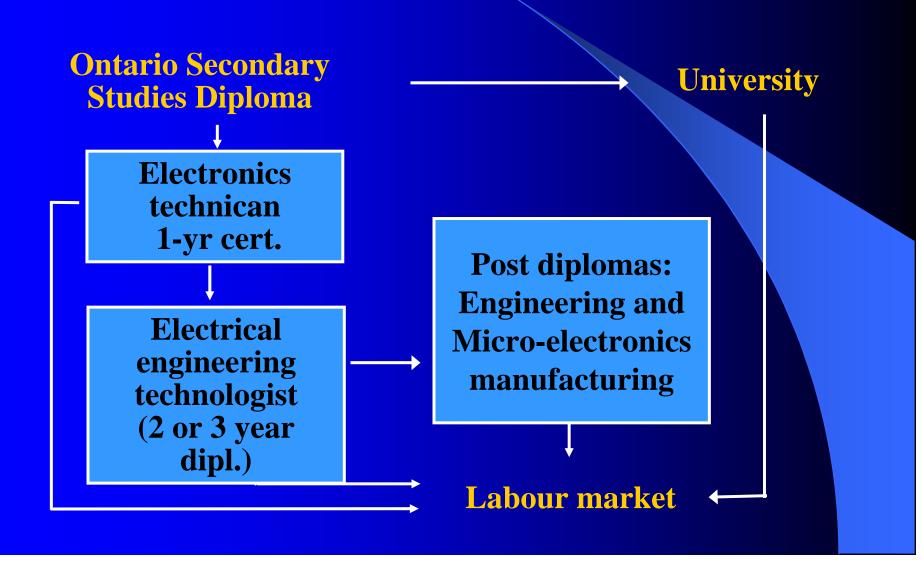
State-based differences

- In Europe, continuity occurs through recognition of skills acquired in various places and using different modes
- In North America, continuity occurs through recognition of skills or credits accumulated in courses under one or more related study programs

Observations related to continuity

- In Quebec: Harmonization, articulation and continuity grids between certain DVS programs and DCS-BAC bridges
- In Lithuania: Requirement under Copenhagen agreement, emerging work (Ex: levels 3 and 4 and vocational training programs in colleges)
- In Massachusetts: Included in the program evaluation process (*Joint Admissions Program*) (Ex: Priority for *Tech. Prep* in *Community Colleges, Associate in Arts Degree* in the *Bachelor's Degree*, the apprenticeship continuum)
- In Ontario: An integral part of the certificate-diploma-post diploma model within a single CAAT

An illustration of continuity between training paths: the case of Ontario



4 Development of vocational and technical training programs

Activity im	plemented to
develop prog	grams of study

Authority that executes each activity in the jurisdictions examined

develop programs of study				
	Lithuania	Ontario	Massachusetts	Quebec
Establish a national consensus on the skills necessary to perform a given occupation	Ministry of Education and Science	Ministry of Training, Colleges and Universities	No consensus at state level	MELS
Analyze the labour market to determine the labour training needs for a given occupation	Ministry of Education and Science Industrial Lead Bodies	CAAT	Community College	MELS
Propose the development of new programs of study or review and adapt existing programs	Colleges	CAAT	Community College	MELS
Evaluate the pertinence of proposed new programs of study or reviewed and adapted programs and approve them	Ministry of Education and Science	Ministry of Training, Colleges and Universities	Massachusetts Board of Higher Education	MELS

Activity implemented to develop study programs (cont.)

Authority that executes each activity in the jurisdictions examined

(cont.)				
	Lithuania	Ontario	Massachusetts	Quebec
Develop programs of study in accordance with the occupational activity reference system and established requirements	Colleges	CAAT	Community College	MELS Cegeps Framework program
Approve new programs of study based on established requirements or conditions prescribed by law and reference framework	Ministry of Education and Science the Chambers	Independent organization	Massachusetts Board of Higher Education	MELS CNPEPT notice
Implement programs of study	Colleges	CAAT	Community College	VT Centres pedagogical choices Cegeps Framework program

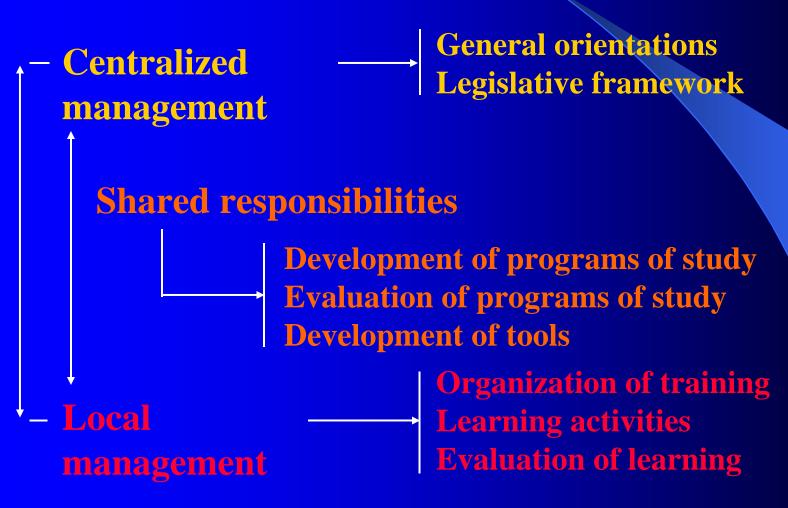
5 Evaluation of vocational and technical programs of study

Activity implemented to evaluate programs of study

Authority that executes each activity in the jurisdictions examined

evaluate programs of study				
	Lithuania	Ontario	Massachusetts	Quebec
Follow-up programs of study	Centre for Quality Assesment in Higher Education and partners	CAAT and the Credentials Validation Service	Board of Higher Education and Community Colleges	MELS
Evaluate vocational training programs of study	Centre for Quality Assesment in Higher Education and partners	l	1	MELS
Evaluate technical training programs of study	Centre for Quality Assesment i n Higher Education and partners	CAAT and the Credentials Validation Service	Board of Higher Education and Community Colleges	MELS CEEC Cegeps

Development and evaluation of programs of study



6 Evaluation of learning achieved through vocational and technical training

Evaluation of learning based on the occupational qualifications model

In Europe

Use of a single evaluation reference system to evaluate learning achieved in training programs offered in the educational network or in the workplace

In North America

Use of distinct location-based evaluation reference systems to evaluate learning achieved in training programs offered in the educational network or in the workplace

Sharing of learning					
evaluation responsibilities					
based on					

Authority involved in evaluating learning in the jurisdictions examined

evaluation responsibilities based on		jurisalctions examined			
		Lithuania	Ontario	Massachusetts	Québec
Training level	Vocational training	Evaluation board Labour market partners	_	Massachusetts Department of Education	MELS
	Technical training	Colleges	CAAT	Community College	MELS Cegeps
The evaluation process phase	Development of evaluation conditions	Colleges	CAAT	Community College	MELS School boards (CS) Cegeps
	Implementation of evaluation activities	Three-party evaluation board with Chambers: employer, worker and instructor representatives	CAAT	Community College	School board (CS) Cégeps

Considerations to reflect on

- How to ensure more convergence related to labour training?
- How to evaluate and follow-up of programs of study?
- How and why to share certain responsibilities related to the evaluation of vocational and technical training?
- How to ensure stable and recurring financing for vocational and technical training?