Vocational education, skills and everything in between

The existing official statistics in Israel

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Agenda

KEY TOPICS
IN THIS PRESENTATION

- Vocational education and training
- A fragmented (vocational) education system
- Some of the available statistics
- The NQF and its role
Vocational Education and Training (VET)

VET programs prepare participants for direct entry into specific occupations. Successful completion of such programs leads to a qualification that is relevant to the labor market.
A fragmented system

"...enhancing skills in Israel requires [...] building bridges between the various parts of the fragmented school system..." (p. 48)

"...the implementation of adult training is fragmented across the Ministry of Economy, the Israel Employment Service [...] and local training institutes. This calls for improved coordination and mutual recognition of training." (p. 75)
Just how fragmented?

- **ISCED 6**
  - Teacher training diploma
  - Ultra-Orthodox colleges for teacher training
  - Practical engineer diploma
  - Technician diploma
  - Min. of Education 13th-14th grades
  - Ministry of Labour Technological colleges

- **ISCED 5**
  - Ultra-Orthodox colleges for teacher training
  - Matriculation certificate (Bagrut)
  - Ministry of Education Upper Secondary General Track
  - Ministry of Education Upper Secondary Technological track
  - Ministry of Labour Upper Secondary Apprenticeships

- **ISCED 4**
  - Preparatory programmes for practical engineers
  - Pre-academic preparatory programmes

- **ISCED 3**
  - Ultra-Orthodox education
  - Matriculation certificate (Bagrut)
  - Technological certificates
  - Vocational certificates

- **Ministry of Education**
  - Upper Secondary General Track
  - Upper Secondary Technological track

- **Ministry of Labour**
  - Technological colleges
  - Practical engineer diploma
  - Technician diploma

- **Universities**
  - Academic colleges
  - Academic colleges for teacher training
## Just how fragmented?

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<th>ISCED 6</th>
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The main distinction relies on institutional separation: Technological education is under the Ministry of Education, while vocational education operates under the Ministry of Labor.
Upper secondary Vocational education and training (VET)

AS OF 2022

Thereof boys: 75%

Tech education, Min. of Education
94%

Apprenticeships and industrial schools, Min. of Labour
6%
Students enrolled in upper secondary apprenticeships and industrial schools supervised by the Ministry of Labour

No growth has been registered in apprenticeship enrollments...
Students enrolled in upper secondary technological education supervised by the Ministry of Education

...alongside a constant growth registered with the Ministry of Education's tech education
Upper secondary Technological education supervised by the Ministry of Education

As of 2021, 39% of 12th grade students were enrolled in the tech track

General track 61.6%

Tech education 38.4%
Our VET statistics keep expanding

NEW DATA ON TECHNOLOGICAL CERTIFICATES

- Since 2020 ICBS has been able to enrich data on graduates of upper secondary tech education in MOE
- We now receive data on 12th grade graduates entitled to Technological Certificates
Two categories of technological certificates

Obtaining a **SCIENTIFIC** TECHNOLOGICAL CERTIFICATE requires eligibility to a Matriculation certificate (*Bagrut*)

...while a **PROFESSIONAL** TECHNOLOGICAL CERTIFICATE does not require previous eligibility to a Matriculation certificate
Graduates of Ministry of Education's Tech track, by type of certificate attained

AS OF 2021

Neither tech nor matriculation
14%

Tech certificate
12.2%

Matriculation
14.4%

Tech certificate + Matriculation
59.4%
Short-cycle tertiary education

AKA
POST-SECONDARY (NON-ACADEMIC) EDUCATION
Short-cycle tertiary education

DESIGNED TO PROVIDE PARTICIPANTS WITH PROFESSIONAL KNOWLEDGE, SKILLS AND COMPETENCIES. TYPICALLY, THEY ARE PRACTICALLY BASED, OCCUPATION-SPECIFIC AND PREPARE STUDENTS TO ENTER THE LABOR MARKET DIRECTLY. MINIMUM DURATION IS TWO YEARS.

[ISCED 2011 LEVEL 5]

Official statistics include studies towards a certificate (not an academic degree) awarded by a recognized post-secondary institution under government supervision (e.g. Ministry of Labour, Ministry of Education)
Main programmes and qualifications at this level

**ISCED 6**
- Teacher training diploma
- Practical engineer diploma
- Practical engineer diploma
- Ministry of Labour vocational training for adults

**ISCED 5**
- Ultra-Orthodox colleges for teacher training
- Technician diploma
- Technician diploma
- Ministry of Labour Technological colleges

**ISCED 4**
- Matriculation certificate (Bagrut)
- Technological certificates
- Vocational certificates

**ISCED 3**
- Ministry of Education Upper Secondary Technological track
- Ministry of Labour Upper Secondary Apprenticeships
Some figures on short-cycle tertiary students

AS OF 2022

30,462

30,028
Some figures on short-cycle tertiary graduates

As of 2022

8,484

7,977
Short vocational training for adults

Classified as "non-formal education":
No continuous pathway structure
Too short duration

- Teacher training diploma
- Ultra-Orthodox colleges for teacher training
- Practical engineer diploma
- Technician diploma
- Min. of Education 13th-14th grades
- Matriculation certificate (Bagrut)
- Technological certificates
- Vocational certificates
- Ministry of Education Upper Secondary Technological track
- Ministry of Labour Upper Secondary Apprenticeships
- Ministry of Labour vocational training for adults

ISCED 5

ISCED 4

ISCED 3
Official statistics on short vocational training for adults in Israel

Data on courses under the supervision of the Ministry of Labor's Vocational Training Department

Vocational training for adults caters for people aged 18+ who wish to acquire a profession, re-skill or upskill within their profession

Two training types:
(1) Self-financed
(2) State-financed
Some figures on **students** enrolled in short vocational training under the supervision of the Ministry of Labour

**TOTAL: 97,107 STUDENTS AS OF 2022**

92,447 STUDENTS ENROLLED IN SELF-FINANCED TRAINING

- **Women** 20%
- **Men** 80%

4,657 STUDENTS ENROLLED IN STATE-FINANCED TRAINING

- **Women** 27%
- **Men** 73%
Some figures on graduates from short vocational training under the supervision of the Ministry of Labor (as of 2022)

<table>
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<tbody>
<tr>
<td>TRANSPORTATION</td>
<td>57,522</td>
<td>COSMETICS</td>
<td>5,393</td>
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<tr>
<td>ELECTRICITY &amp; ELECTRONICS</td>
<td>3,047</td>
<td>ADMINISTRATION</td>
<td>5,114</td>
</tr>
<tr>
<td>COMPUTERS</td>
<td>1,427</td>
<td>EDUCATION AND CAREGIVING</td>
<td>953</td>
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Income changes of vocational training graduates (2016)

A statistical report that analyzes income change and employment rates following short vocational training
Following the training...

Graduates improved their average income by 35%
The share of employed persons raised from 83% to 89%

The biggest increment in income was found in these fields of training:

- **86%**  Lifeguarding and maritime trades
- **66%**  Accommodation services
- **65%**  Computers
- **60%**  Printing, photography and production
A national qualification framework (NQF) establishes a structure for recognizing and classifying qualifications within a country.

It provides a framework for organizing and comparing different types of qualifications.

The Government intends the NQF to be a tool to enhance transparency, comparability and recognition of qualifications within Israel and with other countries.
NQF

Why is it important for official education statistics?

• Since 2018, ICBS has been involved in the development of a National Qualification Framework, a project led by the Ministry of Education and other official agencies.

• By identifying the national qualifications, it would help us prioritize the programmes to consider for official statistics, in a reality of limited resources.

• The national mapping done for this project has already allowed us to identify the Ministry of Education’s Technological Certificates - A valuable addition to official statistics.
THE GOVERNMENT SHOULD EXPEDITE AND COMPLETE THE PROCESS OF CREATING A NATIONAL QUALIFICATIONS FRAMEWORK. SUCH A FRAMEWORK WOULD HELP GIVE CLEAR RECOGNITION TO THE DIFFERENT SECONDARY AND POST-SECONDARY QUALIFICATIONS, INCLUDING VET, AS PART OF AN INTEGRATED MODEL OF LIFE-LONG LEARNING. THIS IS IMPORTANT IN THE CONTEXT OF FRAGMENTED ACCREDITATION [...]
For more information

VET Upper secondary statistics in Israel

Technological Certificates

Income of graduates of Vocational training courses

NQF

PIAAC
Thank you!