Transformation of TVET Systems Towards Enhanced Youth Employability: Malaysia Country Report

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BACKGROUND DATA

Population: 28 million
No. of schools: 9,987
No. of schools with Voc Programs: 860
No. of students: 5 million
Students per cohort: 500,000
Voc Ed in school system: MOE
Voc. Training post-secondary: 7 ministries

Voc. Schools: 70
Enrolment 2012: 35,000 students
No. of voc teachers: 3,000

Pilot Vocational Colleges: 15
Enrolment: 3,400 students

ISSUES faced by MOE

1. How to enhance the capacity in VocEd with the participation of other ministries?
2. Improve enrolment in VocEd
3. Improve Certification
4. Improve facilities
5. Improve links with industries
6. Cater for job market
Skilled Workers Demand

Labour shortage today

Textile labour shortage of 70k
Plastic manufactures labour shortage of 30k

Hospitality labour shortage of 150k

<table>
<thead>
<tr>
<th>Industry</th>
<th>Labour Shortage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manuf’ing</td>
<td>327,798</td>
</tr>
<tr>
<td>Agriculture</td>
<td>269,272</td>
</tr>
<tr>
<td>Construction</td>
<td>107,421</td>
</tr>
<tr>
<td>Financial l’mediation</td>
<td>89,044</td>
</tr>
<tr>
<td>Hotel and restaurant</td>
<td>55,360</td>
</tr>
<tr>
<td>Wholesale and retail</td>
<td>54,079</td>
</tr>
</tbody>
</table>

Number of high income jobs required, 2020

<table>
<thead>
<tr>
<th>Industry</th>
<th>Number of Jobs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Finance</td>
<td>220,314</td>
</tr>
<tr>
<td>Tourism</td>
<td>180,047</td>
</tr>
<tr>
<td>Business</td>
<td>97,705</td>
</tr>
<tr>
<td>E&amp;E</td>
<td>63,219</td>
</tr>
<tr>
<td>H/care</td>
<td>46,006</td>
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<tr>
<td>W/sale Retail</td>
<td>40,266</td>
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<tr>
<td>Telco</td>
<td>28,217</td>
</tr>
<tr>
<td>Agri</td>
<td>20,717</td>
</tr>
<tr>
<td>Palm Oil</td>
<td>13,977</td>
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<tr>
<td>OG&amp;Eng</td>
<td>6,973</td>
</tr>
</tbody>
</table>

1 Preliminary labour estimates from NKEA labs
2 Jobs commanding RM 4k/month and above

SOURCE: MOHR Labour and Human Resources Statistics 2008, interviews conducted with industry association representatives
The TVET Transformation in Malaysia

2002 - 2010

2011 - 2020

Vocational

Technical

Technical

Vocational
Issues

• Would there be significant drops in the exposure of technical and vocational subjects (previously known as MPV) in the general education?

• Would the Vocational Education Transformation Plan in the MoE be able to support the need for TVET workers needed by the country?
20% murid kohort umur 16 tahun (lepasan menengah rendah) memasuki sistem pendidikan vokasional pada tahun 2020
Vocational College (VC) Curriculum

**Academics (30%)**
- Malay Language (Bahasa Melayu)
- English Language
- 3rd Language Mandarin / Arabic
- History
- General Mathematics
- Sciences
- Islamic / Moral Studies

**Entrepreneurship, Employability Skill, On-the-Job Training (70%)**

**Cluster of VC Programme**
- Civil Engineering Technology
- Electric & Electronics Engineering Technology
- Mechanical & Manufacturing Engineering Technology
- ICT
- Business

**Hospitality**
- Agro Technology
- Marine Engineering Technology
- Arts & Cultural Support System
- Transportation
- Health Sciences

**School Enterprise & Production-Based Education (PBE)**

**Proposed VC Courses**
- Electric
- Electronics
- Telecommunication
- Mechatronics
- Tourism
- Bakery & Confectionary
- Fashion & Dress Making
- Child Development & Services
- Culinary Arts
- Cosmetology & Wellness

**Percentage of Credit Hours for Level 1-3 Certificate**
- Academic Module Percentage: 30%
- Vocational Module Percentage: 70%

**Percentage of Credit Hours for Diploma (Level 4)**
- Academic Module Percentage: 20%
- Vocational Module Percentage: 80%
**CURRENT**

- Age 21+
- Age 20+
- Age 18+
- Age 17+
- Age 15+

**TRANSFORMATION**

- Tier 4
- Tier 3
- Tier 2
- Tier 1

**VOCATIONAL SCHOOL (VS)**
- SKM 1
- SKM 2
- SKM 3
- SKM 4

**Politechnics / Skills institutes**
- DKM 4

**AFTER MCE (± 8 MONTHS)**
- Age 19+
- Age 18+

**VOCATIONAL COLLEGE**
- Age 17+

- **At VS, more academics than vocational (SPM) – 60 : 40**
- **Focus on vocational – 30 : 70**

- **After SPM, student is equipped as semi-skilled worker.**
- **After completing education, student is equipped skilled worker.**

- **Transfer of credit is not allowed.**
- **Waste of learning time.**

- **No continuation of programme.**

- **Entrepreneurial programme (School Enterprise, Production-Based Education)**
- **On-the-job training (OJT) - 3 times**

- **Outcome-Based Budgeting (OBB) - marketable graduates.**
- **Human capital in line with National Education Philosophy.**
- **Change societal perception towards Vocational Education.**
# 16 years Age Cohort: Projected Enrolment 2012-2020

<table>
<thead>
<tr>
<th>TAHUN</th>
<th>JUMLAH</th>
<th>PERATUS</th>
<th>KPM</th>
<th>KV</th>
<th>LEPASAN PAW</th>
<th>JUMLAH</th>
<th>KV (ILKA)</th>
<th>KV (SWASTA)</th>
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<td>4,500</td>
<td>1</td>
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<td>3,221</td>
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<td>100</td>
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<td>10,310</td>
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<td>10</td>
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<td>25,380</td>
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<td>2018</td>
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<td>16</td>
<td>25,380</td>
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<td>27,420</td>
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<td>18</td>
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<td>14,400</td>
<td>39,780</td>
<td>32,820</td>
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<td>90,000</td>
<td>20</td>
<td>25,380</td>
<td>17,700</td>
<td>43,080</td>
<td>38,320</td>
<td>8,600</td>
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Program KV – Penglibatan oleh ILP (KSM); IKM, IKBN (KKLW); Kolej Pertanian (KPIAT)
Q&A /Thanks