

Engineering Profession in Manitoba for Newcomer Professionals

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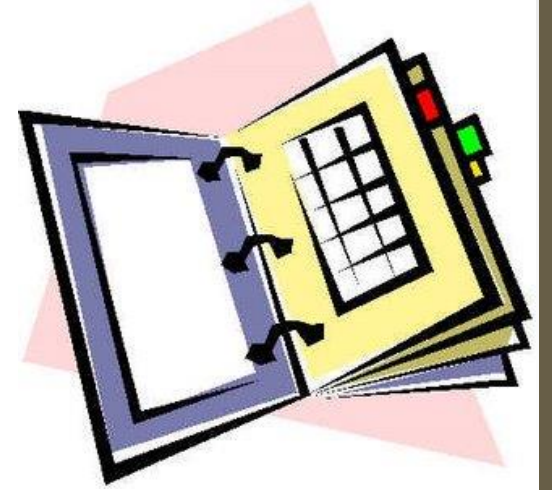
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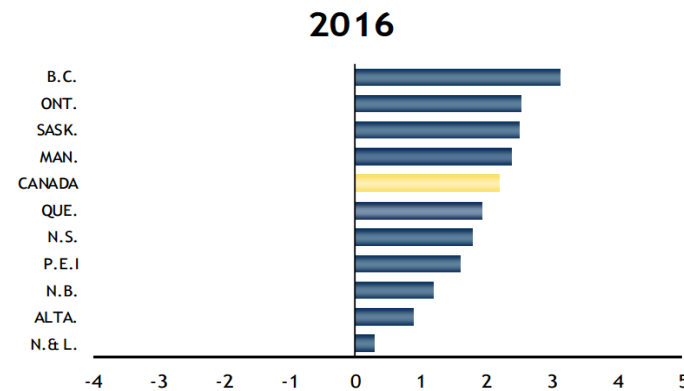
Agenda:

1. Winnipeg : Competitive Advantage
2. Engineering in Canada
3. Engineering in Manitoba
4. CTTAM-Certified Technicians & Technologists Association Of Manitoba
5. Road to the qualification as an Engineer in Manitoba
6. Available Resources to new professionals
7. Common Questions



Winnipeg – Competitive Advantage

1. Located at the strategic heart of the Mid-Corridor. Distribution center to rest of the continent.
2. City connects two major national railways: Canadian National Rail and CP Rail
3. Economy diversity: Winnipeg has highest economic structure diversity of any major Canadian city.
4. Strategic sectors: Aerospace; Biotechnology; Health Research; IT; Agri-Business; Manufacturing (Aero/Agri/Busses/Machines); Tourism;Transportation
5. Quality recourses for education: University of Manitoba, University of Winnipeg; Red River College and etc.
6. Manitoba unemployment rate is 6.1% Second-best in Canada (5.7% Saskatchewan)
7. GDP growth: 2.3 % (2016) ; 2.6 (2017)



Manitoba forecast at a glance
 % change unless otherwise indicated

	2012	2013	2014	2015F	2016F	2017F
Real GDP	3.0	2.4	2.3	1.8	2.4	2.6
Nominal GDP	6.4	3.5	3.5	3.2	4.0	4.8
Employment	1.6	0.7	0.1	1.6	1.1	1.1
Unemployment rate (%)	5.3	5.4	5.4	5.6	5.3	4.9
Retail sales	1.3	3.9	4.3	1.5	4.4	4.1
Housing starts (units)	7,242	7,465	6,220	5,800	6,300	6,000
Consumer price index	1.6	2.3	1.8	1.2	2.2	2.0

Engineering in Canada

- Engineering is regulated profession in Canada.
 - Engineering licenses are granted by **professional engineering associations** that operate in each of the country's provinces and territories. Manitoba (APEGM)
 - To work as a professional engineer in one of Canada's provinces or territories, you must receive a license from that province or territory's engineering association.
 - Can a person with an engineering degree call themselves an engineer in Canada?
 - Can I start to work as an Engineer in Canada right away?
 - Credential Assessment Service VS Provincial Engineering assessment

<http://www.icascanada.ca/home.aspx>

Engineering in Manitoba

- How does my education compare to a Canadian engineering education?
 - If I am an Engineer in Canada right away?
 - ICAS (Education comparing) <http://www.icascanada.ca/home.aspx>
 - The Washington Accord
 - An agreement that was put in place by a number of international signatories, recognizing their approaches and systems for accrediting engineering programs as **comparable**.
 - 6 original members: IEAust-Australia, CCPE-Canada, IEI-Ireland, IPENZ-New Zealand, EngC-United Kingdom, and ABET-United States
 - Currently 17 members
 - <http://www.ieagreements.org/Washington-Accord/Accredited.cfm>

CTTAM-Certified Technicians & Technologists Association Of Manitoba

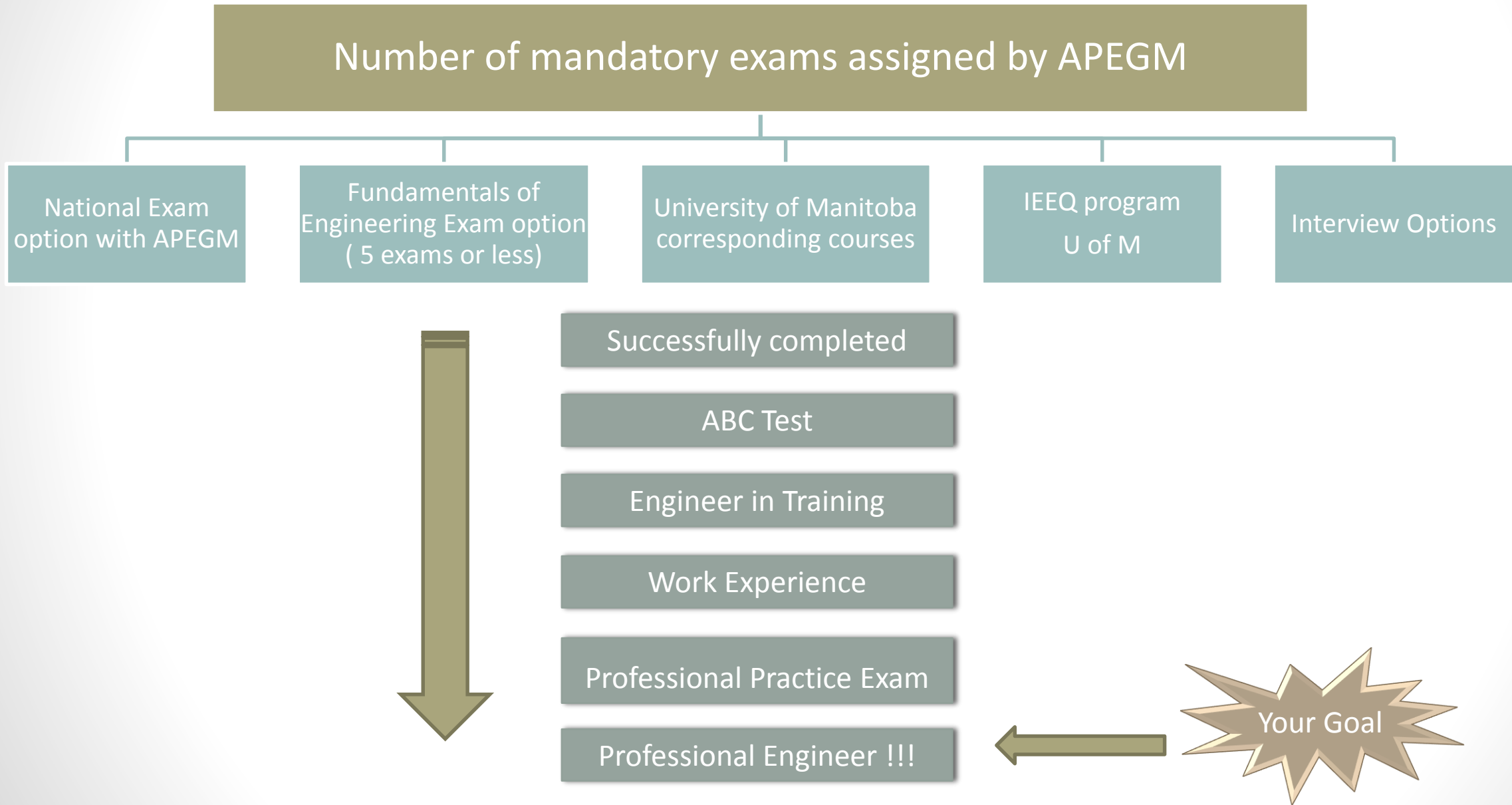
- CTTAM/Technologist option in Manitoba. If this is a good option for me?
 - Engineering degree (Technical College/ University)
 - 2 year of Engineering related experience (1 year Canadian)
 - Project (CTTAM directly/ Red River College/ Course from CTTAM)
 - C.E.T Final Exam
 - <http://www.cttam.com/site/newcomers3?nav=03>

Road to qualification as an Engineer in Manitoba

➤ Application process with APEGM:

- Contact Assessment Officer in APEGM
- Submission of the application for assessment:
- Fees: <http://www.apegm.mb.ca/Fees.html>
- Notarized Translation of your diploma (Immigrant center <http://icmanitoba.com/>)
- Syllabus of all your courses in English.
- Final project if applicable (No English requirements).
- Sealed transcript will be sent from education institution directly to APEGM.
- Language Requirements: <http://www.apegm.mb.ca/LanguageRequirements.html>

Road to qualification as an Engineer in Manitoba



Road to qualification as an Engineer in Manitoba

- Act, Bylaws, Code of Ethics (ABC) Test (<http://www.apegm.mb.ca/ABCTest.html>)
- Member-in-Training
 - Submit the MIT (EIT) application
 - Submit your required documents
 - Application/annual fees
 - Ongoing reports for:
 - 4 years of current work experience (Past experience from my home country)
 - Up to 48 hours of volunteer service
 - Up to 48 hours of professional development
- Professional Practice Exam
- Professional Member (P. Eng)
 - Application to APEGM
 - Three references

Available Resources to New Professionals in Manitoba

APEGM: <http://www.apegm.mb.ca/>

University of Manitoba: <http://umanitoba.ca/>

IEEQ: <http://umanitoba.ca/faculties/engineering/programs/ieeq/index.html>

Employment Manitoba: http://www.gov.mb.ca/employment/emp_centre_locations.html

Employment Canada: <http://www.youth.gc.ca/eng/topics/education/financing.shtml>

Manitoba Student Aid: <http://www.edu.gov.mb.ca/msa/>

Scholarships: <http://www.scholarshipscanada.com/> ; <https://yconic.com/>

CanLearn: <http://www.canlearn.ca/eng/index.shtml>

Grands: <http://www.youth.gc.ca/eng/topics/jobs/apprenticeship.shtml>

Fundamentals of Engineering Exam: <http://ncees.org/>

Engineers Canada: <http://newcomers.engineerscanada.ca/>

Common Questions

1. When the best time to start the qualification process ?
2. What job titles or positions should I look for during my job search?
 - NOC Numbers: <http://www5.hrsdc.gc.ca/noc/english/noc/2011/Welcome.aspx>
3. Do I need to be Permanent Resident in order to apply to APEGM ?
4. If I have difficulty to obtain my syllabus from back home, what I should do?
5. What is acceptable work experience ?
 - <http://www.apegm.mb.ca/pdf/Registration/ProgressReports/05engexp.pdf>
6. If I worked in different area from my degree, can it be count as work experience?

Thank you

“Never, never, never, never give up.”– Winston Churchill

Questions

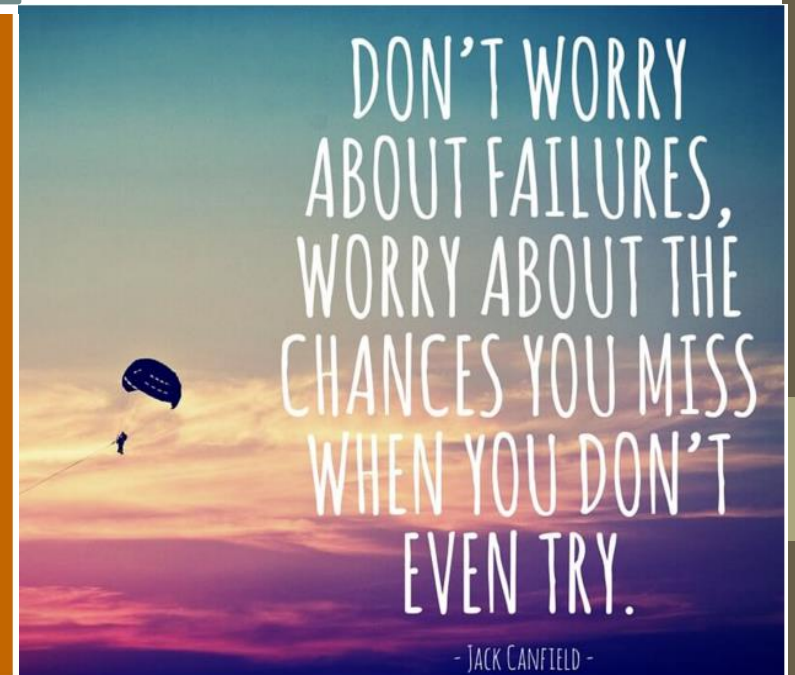
"CHALLENGES ARE WHAT MAKE LIFE INTERESTING AND OVERCOMING THEM IS WHAT MAKES LIFE MEANINGFUL."

- Joshua J. Marine



**THE
JOURNEY OF
A THOUSAND
MILES
BEGINS WITH
ONE STEP.**

Lao Tzu



DON'T WORRY ABOUT FAILURES, WORRY ABOUT THE CHANCES YOU MISS WHEN YOU DON'T EVEN TRY.

- JACK CANFIELD -