

Presents Hands-On Technology Courses (9th Year of Presentation & Training)

1. Aggregate Quality Control Testing Course

- March 27, 28 & 29, 2012 (Tue., Wed. & Thursday)
3-Days Course - 8.30 am – 4.30 pm (Fees: \$750 + HST)

2. HMA (Marshall & Superpave) Technology Training Course

- April 3, 4 & 5, 2012 (Tue., Wed & Thursday)
- April 10, 11 & 12, 2012 (Tue., Wed. & Thursday)
- April 24, 25 & 26, 2012 (Tues., Wed. & Thursday)
- 3-Days Course - 8.30 am – 4.30 pm (Fees: \$925 + HST)

3. HMA Best Practices- Production, Placement & Compaction

- April 13, 2012 (Friday)
1-Day Course - 8.30 am – 4.30 pm (Fees: \$ 295 + HST)

4. Pavement Design Course

- April 23, 2012 (Monday)
1-Day Course - 8.30 am – 4.30 pm (Fees: \$ 295 + HST)

For more information please visit
www.dbaeng.com



1. Aggregate Quality Control Testing Course

The course has been developed for contractors, consultants and aggregate producers involved in material sampling, process control and quality control testing. It is also an excellent course for personnel who want to pursue a career in material testing.

Attendees will learn about latest OPSS requirements, special provisions, Ministry of Transportation laboratory testing procedures (LS Manual), Hands on sampling and laboratory testing for granular base, granular sub-base, hot-mix asphalt & concrete aggregates.

This course covers the requirement of Canadian Council of Independent Laboratories CCIL Type C and D laboratory and technician certifications.

Subjects Include:

Sampling, Sample Preparation, Moisture Content, Grain Size Analysis, Proctor Density, Asphalt Coated Particles, Relative Density of Coarse & Fine Aggregates, Soundness Test, Percent Crushed Particles, Percent Flat & Elongated Particles, Freeze & Thawing of Coarse Aggregates, Micro Deval Abrasion for Coarse & Fine Aggregates.

Instructors:

Mr. M. Ahmed, P. Eng, DBA Engineering
Mr. Andrew Burleigh, C. E. T., DBA Engineering
Laboratory Team: Zlatko, P.Eng., Jimmy, & Nick

2. HMA (Marshall & Superpave) Technology Courses

This detailed three-day program provides information & **hands-on practical training** of the Superpave & Marshall technology and test procedures.

The course will be presented by professionals with expertise in manufacture of PGAC binder, material selection, mix design, production and placement of Superpave mixes. It has been specifically developed for those actively involved in material specification, and QC/QA testing, i.e. Owners, Agencies, Consultants and Contractors.

The **Superpave training** course is highly recommended by (CCIL) Canadian Council of Independent Laboratories for Certified HMA Laboratory Asphalt Technician Program (HMAT). **(Separate certification program administered by CCIL).**

Subjects Include:

(PGAC) Performance Grade Binder Specification & Selection, Highlights of Latest OPSS Requirements, Aggregates Consensus Properties & Criteria, Material Selection & Traffic Criteria, Superpave Gyratory Equipment, Superpave Mix Design process, Moisture Susceptibility testing, RAP in Superpave, & Superpave Project Experience-Production & Placing

Instructors:

Dr. W. Keith MacInnis, Ph.D., Canadian Asphalt Industries
Mr. M. Ahmed, P. Eng, DBA Engineering
Mr. Andrew Burleigh, C. E. T., DBA Engineering
Mr. Vince Aurilio, P. Eng, DBA Engineering
Mr. Fernando Magisano, K.J. Beamish Construction Co.
Plus DBA Engineering Lab Team: Zlatko, P.Eng. & Nick Sibilica.

3. HMA Best Practices- Production, Placement & Compaction

HMA production, laydown and compaction Best Practices will be presented as well as troubleshooting common problems. A look at some of the new developments in asphalt technology will also be featured.

HMA Production,

Placement & Compaction, Best Practices

HMA Troubleshooting

New Developments

Warm Mix Asphalt

Stone Mastic Asphalt

Perpetual Pavements

Who Should Attend?

This one-day course is specifically tailored for the practicing engineer or technician dealing with hot mix asphalt (HMA) on a daily basis.

Instructors: Mr. Vince Aurilio, P. Eng, DBA Engineering

4. Pavement Design Course

The goal of this 1-day workshop is to provide up-to-date information for those designing, constructing, and managing asphalt pavements. This will include the application of the MTO Routine (Empirical), the Asphalt Institute Method, and 1993 AASHTO Flexible Pavement Design Guide. An Introduction to the new Mechanistic-Empirical Pavement Design Guide (MEPDG) will also be presented.

Who Should Attend?

The workshop is intended for managers and engineers, consultants, and others who have responsibility for pavement design, construction, maintenance and rehabilitation of asphalt roads

Highlighted Topics

Pavement Thickness Design

Overlay Design

Pavement Evaluation

Non-Destructive Testing

Maintenance and Rehabilitation Methods

Materials and Construction

Instructors: Mr. Vince Aurilio, P. Eng, DBA Engineering

2012 Courses Registration Form

Please contact Maria Fernandez at 905.851.0090 or 1.800.819.8833 for further details and enrolment, or fax the form at 905.851.0091 / email at info@dbaeng.com

Course Registering For:

- Aggregate Quality Control Course** (Fees: \$750 + HST)
3-Days Course – March 27, 28 & 29, 2012 (Tue., Wed., & Thursday)
- HMA (Marshall & Superpave) Technology Course** (Fees: \$ 925 + HST)
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- HMA Best Practices- Production, Placement & Compaction**
(Fees: \$ 295 + HST)
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1-Day Course - April 23, 2012 (Monday)
- Please check if CCIL examination is to be arranged for CCIL Type-C.**
(Additional fees payable directly to CCIL apply)

Name: _____ Title: _____

Organization: _____

Address: _____

Phone: _____ Fax: _____ Email: _____

Method of Payment: Cash Check

Course binder includes handouts, notes, references and relevant Asphalt Institute manual.

Please note that course enrolment is limited and is on first come first basis.

*3rd HMA course will be conducted only if 1st & 2nd HMA course are full