



“How to Comply with the ESCP Requirements in SUSTom/MSMA2 for Sarawak?”

With the enforcement of **SUSTom / MSMA2** in Sarawak recently, the preparation of ESCP is now mandatory for all project sites in the state. Find out the latest requirements in the preparation of ESCP from the Peninsula. You will receive special tips and powerful tools from the expert, plus up to 30 CPD hours!



18 Hr
CPD
(Pending)

7th August, 2017

Dear Fellow Engineers,

With the approval of **SUSTom** by the State Cabinet of Sarawak recently, the Drainage and Irrigation Department (DID) of Sarawak has made it mandatory for developers to submit an ESCP together with the earthwork plan before the commencement of any earthwork to the relevant DID Divisional office.

Since the ESCP requirement is something new in Sarawak, a lot of engineers are confused at the differences between an earthwork plan and an ESCP. They do not know the rules and regulations governing erosion and sediment control in Sarawak, and how to take into account the various stages of the earthworks and construction processes in the ESCP. In brief, they do not know how to prepare an ESCP to meet the requirements of **SUSTom / MSMA2**.

The benefits of attending the Seminar are as follows:

1. You will find out about the **rules and regulations** on erosion and sediment control in general.
2. You will learn about the **specific requirements** in the preparation of ESCP for Sarawak.
3. You will be shown the **steps and stages** in the preparation of ESCP to fulfill **SUSTom / MSMA2** requirements.
4. You will learn how to prepare an ESCP by using **a real case study** of a mixed development site as an example.
5. You will get **special tips** from the expert that will make your design more cost effective.
6. You will get spreadsheet templates for ESCP preparation worth a total of **RM1,280** for free.
7. You will gain **18 CPD** hours by attending the seminar.
8. You will get **special discount** for MSMAware software.

Signup now for the Seminar by completing and faxing the attached registration form! The brochure and registration form can also be downloaded from <http://escp.msmam.com>. Call or SMS/Whatsapp me now at **012-2812590** if you have any question!

Yours Sincerely,

Ir. Dr. Quek Keng Hong

Limited to the first 88 visitors: Free **MSMA2** spreadsheet at <http://free1.msmam.com>.

Content of Seminar

Day 1- Erosion and Sedimentation Processes & Erosion and Sediment Control Principles

Day 2- Design Guidelines for Erosion and Sediment Control BMPs

Day 3- Preparation of Erosion and Sediment Control Plan & Case Studies

Day 1	Day 2	Day 3
<p>Session 1: Introduction to ESCP in <i>SUStom</i> / <i>MSMA2</i> Rules and regulations on erosion and sediment control. Federal and state regulations including: (1) statutory control and requirements contained in various acts, regulations and by-laws, (2) agency and other guidelines, and (3) operating practices.</p> <p>Session 2: Erosion and Sedimentation Processes Construction activities and deforestation can cause erosion of soil and the movement of sediment into downstream water courses causing flooding and deterioration of water quality.</p> <p>Session 3: Erosion and Sediment Control Principles Eight basic principles consisting of: minimizing soil erosion, preserving top soil and other assets, access route and site management, runoff control & management, earthwork & erosion control, sediment prevention control, slope stabilization and site maintenance.</p> <p>Session 4: Erosion and Sediment Control BMPs All erosion and sediment best management practices (BMPs) can be classified into three types depending on their natural functions and their design objectives as follows: erosion control BMPs, runoff management BMPs and sediment control BMPs. Erosion control BMPs provides cover protection to soil, while runoff management BMPs minimize channel erosion, and sediment control BMPs trap sediment in runoff.</p>	<p>Session 1: Soil Loss Estimation & Case Study The Universal Soil Loss Equation (USLE) is a semi-empirical equation used to assess soil losses under different cropping systems and land management practices. Using a spreadsheet, the USLE is applied in a case study to estimate the soil loss from a project site.</p> <p>Session 2: Sediment Yield Estimation & Case Study The Modified Universal Soil Loss Equation (MUSLE) is a semi-empirical equation for sediment yield estimation of a catchment as a result of a specified storm event. The estimated sediment storage volume is used in sediment basin/trap design. Using a spreadsheet, the MUSLE is applied in a case study to estimate the soil loss from a project site.</p> <p>Session 3: Stormwater Management in Erosion and Sediment Control The computation of design storm IDF data is based on the Sarawak Hydrological Yearbook. The computation of the peak discharges is based on the Rational Method in <i>SUStom/MSMA2</i>. Participants will be given spreadsheet templates to work on as case studies using their PCs.</p> <p>Session 4: Design of Sediment Basins & Case Studies Sediment basins are classified into wet or dry depending on the particle size. Generally wet basin for fine grained clay and dry basin for coarse grained soil. The sizing criteria for wet and dry sediment basin are covered with case studies. Participants will get the chance to do the case studies using spreadsheets.</p>	<p>Session 1: Preparation of Erosion and Sediment Control Plan The ESCP must be prepared by a qualified consultant to manage the erosion and sediment processes throughout various stages of the earthworks and construction processes. It is the masterplan for construction site management in terms of erosion, runoff and sedimentation control. Requirement to submit ESCP for project site more than 1 ha or for any project site under the Street, Drainage, and Building Act (1974).</p> <p>Session 2: Content of Erosion and Sediment Control Plan The ESCP which consists of 3 major components: report, site plans and engineering drawings, and an inspection and maintenance plan shall be submitted as one document for evaluation by the relevant authorities for approval. ESCP site inspection checklist.</p> <p>Session 3: ESCP Case Study 1 Case studies involving a Model ESCP for residential development and subdivision development for a site. They will learn to use Google Earth to visualize the terrain and to understand the drainage pattern.</p> <p>Session 4: ESCP Case Study 2 The case study involved a real project site for a large mixed development site bisected by a river. An ESCP was prepared for the project site and the submission was approved by the authorities. The participants are divided into groups of four and given the project site plans and relevant data. They will work as a group to prepare an ESCP for the case study. Finally, they will be shown the approved ESCP Plan to understand the rationale for the approved ESCP.</p>

About the Seminar Speaker

Ir. Dr. Quek Keng Hong, a consulting engineer by practice, is the principal of **Dr. Quek & Associates**. He is a corporate member of **IEM** and a professional engineer registered with the **Board of Engineers Malaysia (BEM)**. Dr. Quek was the Chairman of the **Water Resources Technical Division of IEM** for two terms since 2003.

Throughout the more than 27 years he spent in consultancy, Dr. Quek has gained a lot of experience in the field of drainage design through his direct involvement in several major infrastructure projects in the country.

Dr. Quek was the reviewer representing **IEM** in the initial review of **MSMA** organised by **D.I.D.** in 2000. Since 2003 he has conducted numerous training workshops and seminars on **MSMA**. Dr. Quek has over 30 publications in various journals, seminars and conferences on urban drainage design.

Who Should Attend?

The Seminar focuses on preparation of ESCP according to **SUSTom** and the Second Edition of the urban drainage design procedure **MSMA2**.

The Seminar is suitable for engineers who are involved in the preparation of ESCP, including those who work in consultants, contractors or government., environmental consultants, developers, contractors, town planners and architects.

Seminar Time Table

- Registration: 8:30 am
- Session 1: 9:00 am- 10:30 am
- Morning Tea Break: 10:30 am to 11 am
- Session 2: 11:00 am-12:30 pm
- Lunch: 12:30 pm to 1:30 pm
- Session 3: 1:30 pm- 3:00 pm
- Afternoon Tea Break: 3:00 pm to 3:30 pm
- Session 4: 3:30 pm- 5:00 pm
- Seminar Finish: 5:00 pm

Details about Seminar

- Date: 20-22 November, 2017- IEM Kuching
- Time: 8:30 am- 5 pm
- Two tea breaks and lunch provided.
- Free spreadsheets worth RM1,280 will be given to all participants. Plus special discount for MSMAware.
- Please bring your own notebook computer as hands-on training is provided during the seminar.

Testimonials from Participants



Here are some testimonials we received from participants of our previous seminar/workshops:

Testimonial 1:

Dear Dr. Quek,

I attended your recent lecture. Far from being "dry", I found your presentation very enlightening and lively. It was worth it! On the sideline, your motivational pep talk was inspiring - a "shot in the arm" that each one of us needs every now and then. Right now I can't wait to try out your free spreadsheet programmes.

Ramlee Hassan

Testimonial 2:

Dr Quek,

I attended your recent IEM talk and I must say that it was the most beneficial IEM talk I have ever attended so far. I hope that all the other talks could have been like yours. Thank you again.

A. Halim Abdullah

Testimonial 3:

Dear Dr Quek,

Thanks for the login ID and password. Thanks also for a well organised 4-days workshop. I have found it very interesting and gained an overview of the methods available at the disposal of the drainage engineer as well as basic hydrological concepts. I wish you all the best in your future workshops and undertakings.
Best Regards,

Paul Chia

Bandar Seri Begawan, Brunei Darussalam

Testimonial 4:

Hi Dr. Quek.

I would like to thank you for the **MSMA** course which I attended in August. It really help me a lot. I have done a layout proposal on OSD based on **MSMA** to JPS Batang Padang and Kinta. The proposal is now approved. Thanks and best regards.

Ir. Chan Kean Chai

Testimonial 5:

Dear Dr. Quek,

I was having a really great time during the workshops. Now i have confidence in my design!

Fadzillah

Testimonial 6:

Dear Dr. Quek,

Greetings from IEM Sabah!!! We would like to conduct a course/workshop on MSMA. We are seeking your expertise to be the speaker for this course/workshop. Appreciate if you would confirm us soon on the above. Thank you.

Wendy Wong (Administrator for IEM Sabah).



Dr. Quek & Associates An Accredited Training Provider for BEM CPD Program.

No. 11-1A, Jalan Bandar 10, Pusat Bandar Puchong, 47160 Puchong, Selangor D.E., Malaysia

Tel: 03-8080 1400 (H/P: 012-2812590), Fax: 03-8080 2582, Email: webmaster@msmam.com, Website: http://msmam.com

1. VENUES AND DATES:

- The Seminar will be held at IEM, Kuching on the dates shown. Seminar notes, lunch and two teas provided each day.
- **Final Seminar Details** containing Seminar timetable and map will be emailed and faxed to all participants 14 days before Seminar.
- Please check our website <http://msmam.com> for important announcements about the Seminar.

Seminar Date	Venue	Time:
20- 22 November, 2017	IEM Kuching Auditorium	8:30 am - 5 pm

2. DETAILS OF PARTICIPANTS: Please fill up the participant details. **Please write clearly!**

Participant Name:	Email Address:	H/P No:
(1):		
(2):		
(3):		

Company Name: _____

Company Address: _____

Telephone: _____ Fax: _____ Contact Person Email: _____ H/P: _____

Contact Person: _____ Signature: _____ Date: _____

3. SEMINAR FEES:

Special discount to companies sending in more than one participant.

No. of Participants:	1	2	3
Fee if paid before 31-8-2017	1797	3235	4313
Fee if paid before 30-9-2017	1887	3396	4528
Fee if paid before 31-10-2017	1977	3558	4744
Fee if paid after 1-11-2017	2067	3720	4960

4. ENROLMENT:

To signup please follow the two simple steps below (Please fill this page and photocopy. Keep the original for your own record):

Step 1- Payment: Select one of the following three payment methods:

- **Method A- Sending Cheque:** Yes. Enclosed herewith Cheque No.....for RM.....payable to **Dr. Quek & Associates**. Please mail/courier a photocopy of this form with payment to us within 7 days.
- **Method B- Direct Bank-In:** Yes. Bank in cash/cheque directly to: **Maybank Account No: 512343-542887** payable to: **Dr. Quek & Associates**. Please fill up this section: We have bank in cash/Cheque No for RM..... on Please fax this form back with the bank-in slip after making payment.
- **Method C- Other Payment Method:** Yes. If you wish to pay by government LO please send us an official letter stating so.

Step 2- Reserve Your Place: Complete this Form and fax it to 03-5882 1602 to reserve your place.

OFFICE USE

- We have received your fax booking on _____. Your place is reserved, **but will be confirmed only upon payment.**
- We have received the payment from you on _____. Your place is confirmed. Receipt will be issued at the Seminar.
- Please find attached the **Final Seminar Details**. Please fill up and fax us the **reply slip** below to confirm your attendance.
- Comment 1: _____
- Comment 2: _____

REPLY SLIP (IMPORTANT: Participants must confirm their attendance by faxing this back to us)

- Yes, we hereby confirmed we have received the **Final Seminar Details** and our participants will be attending the Seminar. We undertake to make any outstanding payment if we have not already done so.

Comment (if any): _____

Signed: _____ Stamp: _____ Date: _____

Payment and Refund Policy: Full payment must be received within 7 days after booking via fax/email. Money paid is not refundable, but substitution may be made at any time. Full refund if the Seminar is cancelled for whatever reasons. **We will SMS, email or fax the Final Seminar Details two week before the Seminar date.** Please make your flight and hotel booking **only** after you have received the **Final Seminar Details** from us. Visit our website <http://msmam.com> for update and details of the Seminar.