Hydraulics & Hydrology Training Course

Matt Witecki 360-705-7259
Rocio (Rose) Peralta 360-705-7260
Glorilyn Maw 206-440-4538

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Course Outline Day 1

8:00 – 8:30	MW	Introduction
8:30 – 9:20	MW	Probability, Risk, and Rainfall
9:20 – 9:30	----	BREAK
9:30 – 10:30	GM	Rational Formula & Example
10:30 – 12:00	RP	SBUH & Drainage Basin Example
12:00 – 1:00	----	LUNCH
1:00 – 2:50	MW, GM,RP	Hydrologic Methods
2:50 – 3:00	----	BREAK
2:50 – 4:00	GM	Open Channel Flow

Course Outline Day 2

8:00 – 8:45	RP	Roadway Geometrics & Pavement Drainage
8:45 – 8:55	----	BREAK
8:55 – 9:40	GM	Spreadsheet Demo
9:40 – 9:50	GM	Storm Drain System Theory
9:50 – 10:20	GM	Culvert End Treatments
10:20 – 10:30	----	BREAK
10:30 – 12:00	MW	Structural Culvert Design & Pipe Materials
12:00 – 1:00	----	LUNCH
1:00 – 2:30	MW	Hydraulic Theory of Culvert Design
2:30 – 2:40	----	BREAK
2:40 – 4:00	RP	Fish Passage Criteria & HY8
4:00 – 4:30	MW	Closing Statements

Hydraulics Handbook

Section 1	Probability, Risk, & Rainfall
Section 2	Rational Formula
Section 3	SBUH Method
Section 4	Hydrologic Methods
Section 5	Open Channel Flow,
Section 6	Roadway Geometrics and Pavement Drainage
Section 7	Storm Drain System Theory
Section 8	Culvert End Treatments, Structural Design of Culverts & Pipe Material
Section 9	Culvert Design
Section 10	HY-8 (Culvert Design)
Section 11	Fish Passage Criteria