

# Civil / Survey Industry Introduction

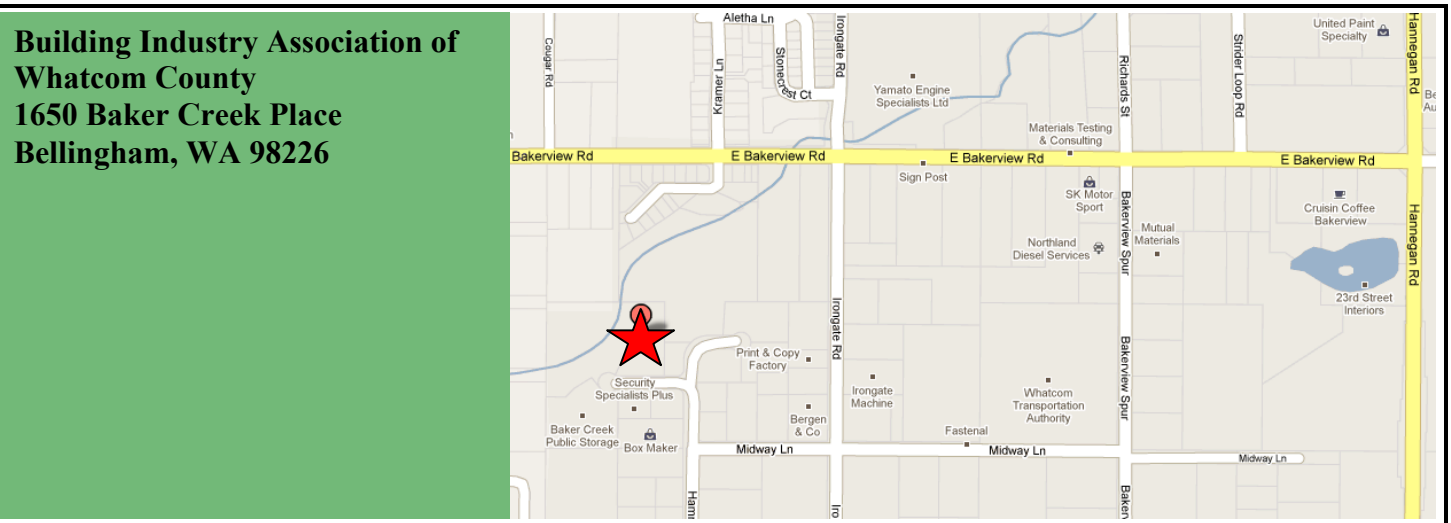
Washington Engineering Institute  
No Cost Program Trial Class



## Class Description:

This class provides an introduction to the Civil / Survey profession. Students will learn about the site survey, civil design, construction survey, construction inspection, and asbuilt survey process for development and public works projects. Students will learn about the various Civil / Survey jobs specialties including field inspector, party chief, chainman, COGO technician, civil engineering technician, surveying technician, civil designer, civil engineer in training, civil engineer, land surveyor in training, and land surveyor. Students will learn about the RCW/WAC regulations that govern the profession.

## Location:



## Dates and Times:

The class is scheduled to run on **Monday and Wednesday afternoons at 6:00-9:00 PM from March 3<sup>rd</sup> to March 31<sup>st</sup>**. This provides a total of (8) evening classes to cover the course material. Please see the Class Calendar on the last page.

## Capacity and Registration:

**This class is limited to (20) students.** Please email the WEI School Coordinator at [admin@weiedu.org](mailto:admin@weiedu.org) for a class registration form. Please send your completed registration form to the registration office:

Washington Engineering Institute  
Registration Office  
PO Box 483  
Custer WA 98240

Washington Engineering Institute, PO Box 483, Custer WA 98240  
[admin@weiedu.org](mailto:admin@weiedu.org)  
(360) 739-1428

## School Provided Materials:

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- **Hardware:** The school provides surveying equipment and a CAD lab during class exercises.
- **Software:** The school provides any needed software during class exercises.
- **Lecture Notes:** The school provides lecture handouts as needed.

## Student Provided Materials:

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- **USB Drive:** Please purchase a 4GB or larger USB drive prior to the first day of class.
- Positive, motivated, respectful, and helpful classroom character

## Instructor

### Dave C. Bren, PE, MSCE

**Experience:** 15 years of experience in the public and private civil engineering industry. Most recent experience was as the Assistant Public Works Director for the City of Blaine. Mr. Bren instructed the Civil Engineering Technology program at Bellingham Technical College from 1997-2006 while continuing to consult in the industry. Mr. Bren continues to consult in the industry while teaching at the Washington Engineering Institute.

**Registration:** Professional Engineer, State of Washington

**Education:** Master of Science in Civil Engineering, University of Washington  
Bachelor of Science in Civil Engineering, University of Washington

## Format:

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**Class Structure:** Evenings will typically run in one-hour blocks as follows:

6:00 PM – Class setup and first hour  
6:50 PM – Break  
7:00 PM – Class  
7:50 PM – Break  
8:00 PM – Class last hour

## Final Exam and Grades:

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Students that are taking the course for a transcript grade must take a final exam. Grades will be determined by attendance (50%) and a final exam (50%).

# March 2010 – Civil / Survey Industry Introduction – ENGR 101

Monday		Tuesday		Wednesday		Thursday		Friday		Saturday		Sunday	
1		2		3	<b>Chapter 1</b>	4		5		6		7	
					6:00-9:00 PM Survey Equipment AutoCAD – Points & Lines								
8	<b>Chapter 2</b>	9		10	<b>Chapter 3</b>	11		12		13		14	
	6:00-9:00 PM Civil Plans Reading Development Standards				6:00-9:00 PM APWA Standards AutoCAD – APWA Titleblock								
15	<b>Chapter 4</b>	16		17	<b>Chapter 5</b>	18		19		20		21	
	6:00-9:00 PM Road Alignments Road Profiles Road Sections				6:00-9:00 PM Storm Utilities Sewer Utilities Water Utilities								
22	<b>Chapter 6</b>	23		24	<b>Chapter 7</b>	25		26		27		28	
	6:00-9:00 PM Survey Maps Reading Survey Standards				6:00-9:00 PM Heavy Construction Industry Estimation & Scheduling								
29		30		31	<b>Chapter 8</b>								
					6:00-9:00 PM RCW / WAC Regulations Public and Private Careers Engineering School Overview								



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## 2010 Class Registration Form

<b>Name</b>	
<b>Address</b>	
<b>Phone</b>	
<b>Email</b>	

<b>Class Requested</b>	<b>ENGR 101 – Civil / Survey Industry Introduction</b>
<b>Class Month / Date</b>	<b>March 2010</b>

### WAC 490-105-160 – State Licensed School Reporting Requirements:

<b>SID / SSN</b>		
<b>Date of Birth</b>		
<b>Gender</b>		
<b>Disability</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
<b>Race</b>	<input type="checkbox"/> American Indian or Alaska Native <input type="checkbox"/> Asian <input type="checkbox"/> Black/African American <input type="checkbox"/> Hawaiian Native or Pacific Islander <input type="checkbox"/> Hispanic <input type="checkbox"/> White/Caucasian <input type="checkbox"/> Multi-racial <input type="checkbox"/> Other	
<b>Prior Education</b>	<input type="checkbox"/> Less than high school graduation <input type="checkbox"/> GED <input type="checkbox"/> High School Graduate <input type="checkbox"/> Post H.S., no degree or certificate <input type="checkbox"/> Associate Degree <input type="checkbox"/> Bachelor Degree <input type="checkbox"/> Master or Doctorate Degree	GED Year _____ Graduation Year _____  Graduation Year _____ Graduation Year _____ Graduation Year _____
<b>Name of Last School Attended</b>		

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**Applicant Signature**