

**Imperial Irrigation District**

**Substation Apprenticeship**

**AP EL 106/AP SUB 106**

**August 16<sup>th</sup> 2017 through November 29<sup>th</sup> 2017**

<b>Week #1</b>	<b>8-16-2017</b>	<b>Intro and layout of class schedule</b>	
<b>Week #2</b>	<b>8-23-2017</b>	<b>Field trip to DOC dispatcher's office</b>	
<b>Week #3</b>	<b>8-30-2017</b>	<b>Safety in substations and switchyards CD/Workbook Substations and switchyards CD/Workbook Field trip to substation (bring hard hat)</b>	
<b>Week #4</b>	<b>9-6-2017</b>	<b>Field Trip to El Centro Generating Station</b>	
<b>Week #5</b>	<b>9-13-2017</b>	<b>Capacitors and Reactors</b>	<b>Video/Workbook</b>
<b>Week #6</b>	<b>9-20-2017</b>	<b>Circuit Breakers 1&amp;2 (<b>Demonstration with Breaker</b>)</b>	<b>Video/Workbook Sub Shop</b>
<b>Week #7</b>	<b>9-27-2017</b>	<b>Control Equipment Blueprint explanation</b>	<b>Video/workbook</b>
<b>Week #8</b>	<b>10-4-2017</b>	<b>High Voltage terminations /Mid Term Video/workbook Underground elbow Demonstration (<b>Lineman presentation</b>)</b>	
<b>Week #9</b>	<b>10-11-2017</b>	<b>Relays 1&amp;2</b>	<b>Video/Workbook</b>
<b>Week #10</b>	<b>10-18-2017</b>	<b>(<b>Relay Demonstration</b>)</b>	<b>Relay Shop</b>
<b>Week #11</b>	<b>10-25-2017</b>	<b>Power Transformers/Troubleshooting 1</b>	<b>Video/Workbook</b>
<b>Week #12</b>	<b>11-1-2017</b>	<b>Power Transformers/Troubleshooting 2</b>	<b>Video/Workbook</b>
<b>Week #13</b>	<b>11-8-2017</b>	<b>Power Transformer Nameplates/Oil Samples and Test Procedures</b>	<b>Field/Substations</b>
<b>Week #14</b>	<b>11-15-2017</b>	<b>Substation Testing Equipment</b>	<b>Substation Shop</b>
<b>Week #15</b>	<b>11-22-2017</b>	<b>Review of final exam</b>	
<b>Week #16</b>	<b>11-29-2017</b>	<b>Final Exam</b>	

**If you have to work because of a trouble or other related problems we will have makeup classes. Please notify me prior to class.**

<b>Attendance</b>	<b>20%</b>
<b>Mid Term</b>	<b>30%</b>
<b>Class Participation</b>	<b>10%</b>
<b>Final Exam</b>	<b>40%</b>

**Thanks**

**Darrin Thomason**

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