

SPRINGFIELD TECHNICAL COMMUNITY COLLEGE

ACADEMIC AFFAIRS

Course Number: ABT 260 & ABT 260L Class/Lect. Hours: 2 Lab Hours: 3 Credits: 3 Dept.: Architectural & Building Technology

OBJECTIVES/COMPETENCIES

Course Objectives	Competencies
<ol style="list-style-type: none"> 1. Insurance requirements; Client, general constructor and sub-contractors. 2. OSHA requirements & Employer responsibilities 3. Identify contract laws and ethics within a construction related project. 4. Identify LEED certification and energy efficiency certifications for construction projects. 	<p>To be able to learn the terminology related to the insurances and contractors legal obligation to a construction project. To be able to understand Owners obligations with insurance policies on a construction projects. Understand the differences between negotiated and competitive bids.</p> <p>Ability to understand what OSHA stands for and the responsibilities with it on a construction project. Ability to understand what role the employees under a contractors company play with the safety standards of a construction project.</p> <p>Ability to understand AIA construction documents and other contract information. To be able to identify ethics related to construction projects contracts and execution.</p> <p>Ability to understand the organizational skills needed to conduct a high-energy efficiency certification process on a construction project. Understand the LEED certification point system needed to achieve levels of certification, and Green Associate certification. Ability to identify multiple certifications for residential</p>

Course Objectives	Competencies
<p>5. Understand advanced estimating and scheduling construction projects and software to develop and execute resource and cost loaded construction projects.</p> <p>6. Understand relationships with Owners, Contractors, Architects, Engineers and community members.</p> <p>7. Prepare professional documentation and presentations consistent with workplace standards.</p>	<p>construction projects. Ability to understand costs associated with certifications on construction projects.</p> <p>Ability to develop and present a construction project estimate and separate construction schedule utilizing spreadsheet software. Show dependencies of each construction activity on other construction activities. Develop the project schedule of multiple activities, which account for activity dependencies. Identify construction project activities, breaking down sections to develop a cost estimate, resource requirements and a critical path schedule. Know how to develop, define, and utilize construction resources to execute a construction cost and schedule. Compare management options regarding overhead and direct costs and meeting project completion deadlines.</p> <p>Understand the concepts and roles of Integrated team design/build companies and how to work within the project team. Identify responsibilities between the Owner, Contractor, Architect, and Engineer, community member or third party on a construction project.</p> <p>Know how to develop documentations consistent with workplace and building industry standards. Know how to effectively present a project-using power point and</p>

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<p>8. Demonstrate interpersonal skills consistent with expectations for project managers.</p>	<p>other mediums consistent with building project standards.</p> <p>Use terms related to building industry standards when presenting information about a building project.</p> <p>Ability to demonstrate knowledge and communication within a team setting to lead others to building project goals.</p>