

	IS480 - IS Application Project	Core Competencies That Address Outcomes	Methods to Assess Outcomes
<b>1</b>	<b>Integration of business &amp; technology in a sector context</b>		
	1.1 Business IT value linkage skills	<ul style="list-style-type: none"> <li>Identify the key process of YDC's activities.</li> <li>Identify areas where IT is able to replace manual processes.</li> </ul>	<ul style="list-style-type: none"> <li>Sponsor Feedback</li> <li>Internal Group Discussion</li> </ul>
	1.2 Cost and benefits analysis skills	<ul style="list-style-type: none"> <li>Collect pricing of similar products in the market.</li> <li>Derive performance targets for YDC's business process.</li> </ul>	<ul style="list-style-type: none"> <li>Internal Group Discussion</li> </ul>
	1.3 Business software solution impact analysis skills	<ul style="list-style-type: none"> <li>Identify the technical solutions which generate the highest resultant benefits for YDC.</li> <li>Identify the technical solutions which will differentiate YDC from other social enterprises offering similar products.</li> </ul>	<ul style="list-style-type: none"> <li>Sponsor Feedback</li> </ul>
<b>2</b>	<b>IT architecture, design and development skills</b>		
	2.1 System requirements specification skills	<ul style="list-style-type: none"> <li>Communicate with sponsor to determine initial requirements.</li> <li>Propose functional and non-functional requirements to client.</li> <li>Identify and extract business rules used in YDC's activities.</li> <li>Identify and develop use-cases for development.</li> </ul>	<ul style="list-style-type: none"> <li>Sponsor Feedback</li> </ul>
	2.2 Software and IT architecture analysis and design skills	<ul style="list-style-type: none"> <li>Identify and develop architecture solution for development.</li> <li>Design databases for technical solutions to support all functional requirements.</li> </ul>	<ul style="list-style-type: none"> <li>Supervisor Feedback</li> <li>Sponsor Feedback</li> </ul>
	2.3 Implementation skills	<ul style="list-style-type: none"> <li>Implement database using MySQL.</li> <li>Implement web front and backend using PHP, JQuery.</li> <li>Implement report generation module using BIRT.</li> <li>Implement Operation Tracking Application using Android SDK.</li> <li>Integration of all above modules for deployment.</li> </ul>	<ul style="list-style-type: none"> <li>Supervisor Feedback</li> <li>Sponsor Feedback</li> </ul>
<b>3</b>	<b>Project management skills</b>		
	3.1 Scope management skills	<ul style="list-style-type: none"> <li>Manage scope of project and suggest adding/removing functions to sponsor.</li> </ul>	<ul style="list-style-type: none"> <li>Supervisor Feedback</li> <li>Sponsor Feedback</li> <li>Schedule Metric</li> </ul>
	3.2 Risks management skills	<ul style="list-style-type: none"> <li>Identify risk before start of project and analyse ways to mitigate/eliminate risk.</li> <li>Learn to mitigate risks and perform risk assessment as the project moves forward</li> </ul>	<ul style="list-style-type: none"> <li>Supervisor Feedback</li> <li>Sponsor Feedback</li> <li>Risk Metric</li> </ul>
	3.3 Project integration and time management skills	<ul style="list-style-type: none"> <li>Identify critical paths and bottlenecks with regards to our project and cater resources to eliminate hold ups.</li> </ul>	<ul style="list-style-type: none"> <li>Supervisor Feedback</li> <li>Sponsor Feedback</li> <li>Schedule Metric</li> </ul>
	3.4 Configuration management skills	<ul style="list-style-type: none"> <li>Use TortoiseSVN as repository for version control of codes.</li> </ul>	<ul style="list-style-type: none"> <li>Supervisor Feedback</li> </ul>
	3.5 Quality management skills	<ul style="list-style-type: none"> <li>Develop test plans and test cases to ensure quality of development</li> <li>Evaluate feedbacks given during internal and external UATs.</li> </ul>	<ul style="list-style-type: none"> <li>Supervisor Feedback</li> <li>Sponsor Feedback</li> <li>Bug Log</li> </ul>
<b>4</b>	<b>Learning to learn skills</b>		
	4.1 Search skills	<ul style="list-style-type: none"> <li>Search for online resources for development tools.</li> <li>Search for information regarding YDC's core business.</li> </ul>	<ul style="list-style-type: none"> <li>Internal Group Discussion</li> </ul>
	4.2 Skills for developing a methodology for learning	<ul style="list-style-type: none"> <li>Regular sharing sessions on development tools.</li> </ul>	<ul style="list-style-type: none"> <li>Internal Group Discussion</li> </ul>

		<ul style="list-style-type: none"> <li>Propose new technologies that are beneficial to the project.</li> </ul>	
<b>5</b>	<b>Collaboration (or team) skills:</b>		
	5.1 Skills to improve the effectiveness of group processes and work products	<ul style="list-style-type: none"> <li>Learn from each member's strengths and complement each member's weaknesses.</li> <li>Effective communication among all members.</li> </ul>	<ul style="list-style-type: none"> <li>Internal Group Discussion</li> </ul>
<b>6</b>	<b>Change management skills for enterprise systems</b>		
	6.1 Skills to diagnose business changes	<ul style="list-style-type: none"> <li>Gather future direction of YDC from sponsor.</li> <li>Analyse the future trends of YDC's core business.</li> <li>Feel and anticipate client happiness on product features or if change is required.</li> </ul>	<ul style="list-style-type: none"> <li>Supervisor Feedback</li> <li>Sponsor Feedback</li> <li>Internal Group Discussion</li> </ul>
	6.2 Skills to implement and sustain business changes	<ul style="list-style-type: none"> <li>Add flexibility in technical solution we propose to allow for future expansion of YDC.</li> </ul>	<ul style="list-style-type: none"> <li>Supervisor Feedback</li> <li>Sponsor Feedback</li> </ul>
<b>7</b>	<b>Communication skills</b>		
	7.1 Presentation skills	<ul style="list-style-type: none"> <li>Presentations for acceptance, mid-terms and final.</li> <li>Regular presentations to supervisor and sponsor on progress of project.</li> <li>Frequent meet-ups with Sponsor for requirements gathering and mock-ups to ensure accuracy in understanding between both parties.</li> </ul>	<ul style="list-style-type: none"> <li>Supervisor Feedback</li> <li>Sponsor Feedback</li> <li>Presentations</li> </ul>
	7.2 Writing skills	<ul style="list-style-type: none"> <li>Documentations for project</li> <li>Update wiki with sufficient information on our project</li> </ul>	<ul style="list-style-type: none"> <li>Supervisor Feedback</li> <li>Sponsor Feedback</li> </ul>