

**MORAINÉ PARK TECHNICAL COLLEGE
PROGRAM OUTCOMES WORKSHEET
2009-2010**

Program Name: Civil Engineering Technician - Structural
Program Number: 10-607-5
Required DML: Capstone Projects

Student Name:
MPTC Student ID #:

Program Learning Outcomes	
Apply surveying procedures and utilization of surveying equipment in the measurement of distance, elevations, and directions.	
607-135 Construction Surveying	Project
Calculate the forces in a wood and steel truss and the stress and strain in structural members.	
607-131 Structural Analysis 1	Test
Calculate the heat loss for a commercial building.	
607-122 Construction - Mechanical	Heat Loss Project
Determine the cost of labor and materials for a commercial building.	
607-123 Construction Estimating	Estimation Project
Determine the load bearing capacity of soils.	
607-138 Soils	Project
Develop a set of construction drawings for a wood-framed building.	
607-112 Architectural Drafting	Project
Develop a set of engineering construction drawings for a pre-cast concrete building.	
607-114 Structural Drafting	Project
Develop a set of engineering construction drawings for a pre-engineered steel building.	
607-114 Structural Drafting	Project
Develop a set of engineering construction drawings for a structural steel building.	
607-114 Structural Drafting	Project
Develop a set of engineering construction drawings for a wood pole building.	
607-114 Structural Drafting	Project
Draw a land area plan incorporating a closed traverse and legal description.	
607-110 Drafting Fundamentals - Civil	Project