Name:

Date: Friday, June 2, 2023

Teacher: Teacher

Course: Manufacturing Engineering Technology, Grade 12,

University/College Preparation

Injection Mold Machining

Students will create a mold based on the provided material and drawings

Expectations: 12A1, 12A2, 12A4, 12B2, 12B3, 12D1, 12A1.2, 12A1.4, 12A2.4, 12A4.2, 12B2.3, 12B2.5, 12B3.1, 12B3.6, 12B3.7

Criteria	Level 4	Level 3	Level 2	Level 1		
	(80% - 100%)	(70% - 79%)	(60% - 69%)	(50% - 59%)		
Knowledge and Understanding						
demonstrate the skills required to safely operate machine tools and equipment in the assembly or fabrication of a product	demonstrates the skills required to safely operate machine tools and equipment in the assembly or fabrication of a product with expertise	demonstrates the skills required to safely operate machine tools and equipment in the assembly or fabrication of a product capably	demonstrates the skills required to safely operate machine tools and equipment in the assembly or fabrication of a product with some capability	demonstrates the skills required to safely operate machine tools and equipment in the assembly or fabrication of a product with assistance		
plan a detailed manufacturing process for production	plans a detailed manufacturing process for production with remarkable success	plans a detailed manufacturing process for production with credible success	plans a detailed manufacturing process for production with adequate success	plans a detailed manufacturing process for production with developing success		
Thinking						
analyse the results of a production process, and modify operations, systems, and tooling as necessary	expertly analyses the results of a production process, and modifies operations, systems, and tooling as necessary	competently analyses the results of a production process, and modifies operations, systems, and tooling as necessary	adequately analyses the results of a production process, and modifies operations, systems, and tooling as necessary	analyses the results of a production process, and modifies operations, systems, and tooling as necessary, with assistance		
choose suitable materials and processes	chooses suitable materials and processes with a high degree of effectiveness	chooses suitable materials and processes with considerable effectiveness	chooses suitable materials and processes with some effectiveness	chooses suitable materials and processes with limited effectiveness		
Communication						
generate product specifications through the accurate interpretation of engineering drawings, sketches, and reports	generates product specifications through the accurate interpretation of engineering drawings, sketches, and reports with remarkable success	generates product specifications through the accurate interpretation of engineering drawings, sketches, and reports with credible success	generates product specifications through the accurate interpretation of engineering drawings, sketches, and reports with adequate success	generates product specifications through the accurate interpretation of engineering drawings, sketches, and reports with developing success		

apply relevant mathematical skills, scientific concepts, and technological literacy and communication skills in planning and implementing	always or almost always applies relevant mathematical skills, scientific concepts, and technological literacy and communication skills in planning and	usually applies relevant mathematical skills, scientific concepts, and technological literacy and communication skills in planning and implementing	sometimes applies relevant mathematical skills, scientific concepts, and technological literacy and communication skills in planning and implementing	rarely applies relevant mathematical skills, scientific concepts, and technological literacy and communication skills in planning and implementing			
manufacturing	implementing	manufacturing	manufacturing	manufacturing			
processes	manufacturing	processes	processes	processes			
	processes						
Application							
use advanced	masterfully uses	skilfully uses advanced	satisfactorily uses	is beginning to use			
measuring tools to	advanced measuring	measuring tools to	advanced measuring	advanced measuring			
calculate	tools to calculate	calculate	tools to calculate	tools to calculate			
measurements in both	measurements in both	measurements in both	measurements in both	measurements in both			
metric and US	metric and US	metric and US	metric and US	metric and US			
customary/British	customary/British	customary/British	customary/British	customary/British			
imperial units	imperial units	imperial units	imperial units	imperial units			