

OPERATION PROCESS CHART

LIVE MANUFACTURING CONTEST

TOOLING DRAWING

Part Name: _____

Operation Name: _____

LIVE MANUFACTURING CONTEST

INSPECTION GAUGE DRAWING

Part Name: _____

Operation Name: _____

LIVE MANUFACTURING CONTEST

PLANT LAYOUT

LIVE MANUFACTURING CONTEST

FLOW PROCESS CHART

Product Name: _____

University: _____

Task #	Process Symbols	Description of the Task	Machine	Material
T-1	○ □ → ▭ ▽			
O-1	● □ ⇨ ▭ ▽			
	○ ■ ⇨ ▭ ▽			
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LIVE MANUFACTURING CONTEST

TEECA MANUFACTURING CONTEST - Judging Form

School: _____ Team Captain: _____

Judge: _____ Date: _____

EVALUATION CRITERIA

Pre-Production

Tooling design and engineering principles	100 pts.
Tooling construction quality	50 pts.
Part quality (specifications)	50 pts.
Finish (school colors, quality)	20 pts.
Pre-production process	100 pts.
Pre-production safety	50 pts.

SUB-TOTAL 370 pts

Presentation - Portfolio (Note: there should be a separate section for each item listed below)

Cover Sheet	1 pt.
Table of Contents	1 pt.
Signature page	1 pt.
Participant page	1 pt.
Tooling sketches	20 pts.
Tooling drawings	30 pts.
Product orthographic drawing	10 pts.
Product pictorial assembly (exploded) drawing	10 pts.
Operation process chart	10 pts.
Flow process charts	10 pts.
Facilities/plant layout - pre-conference	5 pts.
Facilities/plant layout - conference	5 pts.
Quality control	20 pts.
Tooling design rationale	10 pts.
Material selection rationale	10 pts.
Tooling safety design	10 pts.
Pre-production safety incorporation	10 pts.
Bill of materials	10 pts.
Cost analysis(to include break even #)	30 pts.
Overall appearance of portfolio/neatness	30 pts.
Oral presentation - multimedia portion (at ITEEA only)	20 pts.
Oral presentation - interview portion (at ITEEA only)	20 pts.

SUB-TOTAL 274 pts.

Live Production

Compliance with rules	20 pts.
Organization and flow of production run	20 pts.
Quality of completed project	40 pts.

SUB-TOTAL 80 pts

GRAND TOTAL 724 pts.

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