

Fanshawe College

## FIRST: Fanshawe Innovation, Research, Scholarship, Teaching

---

Documentation (Approvals etc...)

Manufacturing Engineering Technician

---

1985

### Manufacturing Engineering Technician Funding Approval Letter

Fanshawe College

Follow this and additional works at: [https://first.fanshawec.ca/cae\\_appliedscienceandtech\\_manufacturingengtechnician\\_documentation](https://first.fanshawec.ca/cae_appliedscienceandtech_manufacturingengtechnician_documentation)

---



Ontario

1985 12 09/rms.

Mr. W.J. Pilisworth  
Mr. A.D. White ✓

Ministry of  
Colleges and  
Universities

(416)965-5375

10th Floor  
Mowat Block  
Queen's Park  
Toronto, Ontario  
M7A 1L2

Ministère des  
Collèges et  
Universités

étage  
Édifice Mowat  
Queen's Park  
Toronto (Ontario)  
M7A 1L2

December 3, 1985

Mr. Harry Rawson  
President  
Fanshawe College of Applied  
Arts & Technology  
P. O. Box 4005, Terminal C  
1460 Oxford Street East  
London, Ontario N5W 5H1

*plc  
B. Shaw  
EAD*

Dear Mr. Rawson:

RE: PROGRAM	- MANUFACTURING ENGINEERING TECHNICIAN
MCU Code	- 57000
CCDO Code	- 2165-238
Program Code	- 20-430
APS Number	- 01053
Duration	- 64 Weeks
Campus	- Oxford Street
Effective Date	- December, 1985
Category	- NSDP

Please accept this as approval to offer the above program in the non-semestered mode for federal purchase, plus fee payers up to 20% of federal purchases. The Program Description dated November, 1985, is enclosed.

*why?  
- see letter 12/1/85  
allowing 20%  
not appropriate  
for this  
prog.*

Approval to offer this program should not be taken as a commitment of capital funds from the Ministry. If additional capital is required, it will be necessary for you to apply in the usual manner.

Yours sincerely,

*A. J. Humber*

A. J. Humber  
Director  
College Affairs Branch

GENERAL

DEC 09 1985

SERVICES

OFFICE OF  
THE PRESIDENT

Enclosure

85- 12 09

RECEIVED

# PROGRAM DESCRIPTION

Page 1 of 2

---

PROGRAM:

MANUFACTURING ENGINEERING TECHNICIAN

Code Number: 2165-238 20-430

Average Duration: 64 weeks

Date November, 1985

---

PURPOSE:

To prepare graduates with competencies in Basic Machining, NC/CNC Programming, Weld and Weld Analysis, Metallurgy, Plant Layout, Material Handling, Tool Design and Drafting.

---

ENTRANCE REQUIREMENTS:

OSSD/OSSGD including Grade XII Math (general or advanced level) or equivalent or mature student with appropriate preparation i.e., Grade XII English, Mechanical Drafting, Machine Shop, Grade XI or XII Physics or Chemistry, Welding.

---

OCCUPATIONAL OPPORTUNITIES

Manufacturing and Service companies including:

- Machine and Tool Manufacturing
- Appliance Manufacturing
- Fabricating and Welding Companies
- Electronic Parts Manufacturing
- Bearing Manufacturing
- Manufacturing Business Consultants
- Hospitals and Universities
- Jobbing Shops.

---

CERTIFICATION

A certificate will be issued by the college upon graduation.

---

Program Title STATIONARY ENGINEERING - 2ND CLASS THEORY  
Code Number 2165-238 20-430  
Date November, 1985 Initials: CT

# PROGRAM DESCRIPTION

(CONTINUED)

Page 2 of 2

## TERMINAL PERFORMANCE OBJECTIVES (TPO)

Upon successful completion of the program the graduate will be able to:

1. Recognize and employ safe working practices at all times.
2. Undertake the work of a junior tool designer to design or redesign basic production tooling, including CNC machining fixtures and robotic welding fixtures, on the drafting board and using CAD equipment.
3. Undertake basic production process planning and supervise related set-ups.
4. Develop and manage basic statistical process control methods and procedures, utilizing modern measurement and computer analysis equipment.
5. Provide value analysis assistance to the product design group to reduce costs and improve productivity.
6. Develop documentation to support cost reduction analyses of the manufacturing process and its elements, utilizing modern computerized spreadsheet techniques.
7. Undertake accurate work measurement, methods analysis and work station layout.
8. Undertake production equipment and methods evaluation.
9. Set-up and operate machine tools for material removal purposes, and demonstrate a thorough knowledge of material removal.
10. Program CNC machine tools manually and utilizing computer assisted programming systems.
11. Set-up and operate CNC machines taking advantage of advanced metal removal technology.
12. Communicate in writing and orally with people at all levels of the organization.
13. Interpret blueprints and utilize equipment to produce components according to specifications.