



CURRICULUM GUIDE 2014-2015

ENGINEERING/MANUFACTURING TECHNICIAN

Certificate of Accomplishment in Engineering/Manufacturing Technician

Requirements for Certificate of Accomplishment:

- a) Complete satisfactorily the courses listed for the particular certificate.
- b) Complete at least 50% of the required units at Ohlone College.
- c) Maintain a 2.0 grade point average.

ENGINEERING/MANUFACTURING TECHNICIAN

This certificate prepares students for a career as a technician in a variety of manufacturing and technical capacities, including electronics assembly, QA/QC, construction, medical devices, energy/environmental industry (i.e., solar energy), semi conductor, computer manufacturing, computer networking, general manufacturing, biotechnology automation, engineering consulting, telecommunications, etc.

Student Learning Outcomes

1. Describe the role of an engineer; discuss the application of GMP and GLP in bio-manufacturing and other technical fields.
2. Demonstrate proper clean room protocols.
3. Demonstrate the use of basic tools; recommend appropriate procedures to address equipment failure; interpret blueprints; apply principles of electricity and electronics appropriately.
4. Compare and contrast properties of materials such as metals, polymers, and ceramics; compare and contrast the mechanical, electrical, thermal, magnetic, and optical properties of metals, polymers, and ceramics.

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| BIOT-113 | GMP/GLP and Writing SOP's | 1.5 |
| BIOT-119 | Clean Room Operations | .5 |
| CAOT-166 | 2D Drafting with AutoCAD | 3 |
| CHMT-102 | Chemical Safety and Hygiene | 1 |
| CNET-105 | IT Essentials (CompTIA A+) | 4 |
| ENGI-101 | Introduction to Engineering | 3 |
| ETEC-106 | Electronics for Technology | 3 |
| ETEC-107 | Properties of Materials | <u>.5</u> |
| | | 16.5 |

Recommended Course

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| MATH-151 | Algebra I | (5) |
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