ISTITUTO DI ISTRUZIONE SUPERIORE "PRIMO LEVI" - ITT

PROGRAMMA DI LINGUA INGLESE

CLASSE 5[^] indirizzo meccatronico

Testo in adozione: B.Franchi Martelli – H.Creek "English Tools for Mechanics" Ed. Minerva Scuola

• Section 1: introducing the world of engineering

UNIT 1: First steps into the world of engineering

Engineers at work

Technical communication

Designing, drawing, manufacturing

UNIT 2: Materials

Atoms and elements

Characteristics of materials

Composite and smart materials

UNIT 3: Drawing

How to represent a design

• Section 2: safety in your machine shop

UNIT 4: Working safely

Hazard prevention

Electrical safety

UNIT 5: Electricity

Electrical safety rules

Conductors, insulators, semiconductors

UNIT 6: Risk assessment

Identifying dangers

Risks under control

Section 3: tools and machine tools

UNIT 7: Entering a machine shop

Bench fitting

Tools and processes

UNIT 8: Machine tools

Machine tool operations

Lathes

Holemaking

Milling and grinding machines

UNIT 9: Computer and machine

Automation technology

Computer in the machine shop

• Section 4: computers and automation

UNIT 12: Automation and robotics

The basics of robotics

New technology in engineering

Robots at work

• Section 5: energy, engines and mechanical engineering system

UNIT 13: Energy

Energy and environment : Sources of energy

Alternative sources of energy

An open debate on nuclear energy: text 13 and 16

UNIT 15: Engines and car technology

Car engines: How car engines work

Green cars