

Each Content Area below has a number of Concepts and Topics listed that will become part of the Competencies Addendum to the NHTEA Curriculum Guide.

Information & Communications

Historical

Impacts

Cultural

Social

Economic

Political

Environmental

Managing/Control

Safety

Career

Drafting

CAD

Arch Drafting

Mech Drafting

Graphics/Printing

Screen

Offset

Desktop

Electrostatic

Photography/imaging

Digital Photography

Video/film

Electronic

Games/Simulations

Recording

Wave

Power & Energy

Historical

Impacts

Cultural

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Career

Sources of Energy –

Renewable and Non renewable

Forms

- Mechanical
- Electrical
- Thermal
- Nuclear
- Light
- Chemical

Distribution

Transportation

Historical

Impacts

- Cultural

- Social

- Economic

- Political

- Environmental

Managing/Control

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Career

Transportation Systems and Engines –

- Transportation Systems

- External Combustion Engines

- Internal Combustion Engines

- Gasoline Automotive Engines

- Diesel Automotive Engines

- Electric

Small Engine –

- Small Engine Operation

- Small Engine Safety

- Maintaining and Troubleshooting Small Engines

- Equipment Powered by Small Engines

Modes

- Land

- Water

- Air

- Space

Utilities

- Gas

- Water/Sewage

- Electrical/Cable

- Fiber

- Satellite/wave

Manufacturing

Historical

Impacts

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Safety

Career

Quality Assurance

Resources

People

Capital

Time

Energy

Materials

Design/Engineering

Production methods

Line Production

Job Lot Production

Mass Production

Custom Production

Construction

Historical

Impacts

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Career

Types

Civil

Residential

Commercial

Industrial

Materials

Metal

Ceramic

Plastic

Wood/Organic

Composite

Mineral
Site Work
Surveying
Landscaping
Geologic analysis
Excavation

Engineering

Historical

Impacts

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Safety

Career

Design Process

Ethics

Sustainability

Engineering Disciplines

Aerospace

Agricultural

Civil

Chemical

Computer

Electrical/Electronic

Industrial

Mechanical

Medical

Historical

Impacts

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Diagnostic

Imaging

Prosthetic

Pharmaceutical
 Vaccines
Genetic Therapeutics
Homeopathic

Agricultural & related Bio-Technology

Historical
Impacts
 Cultural
 Social
 Economic
 Political
 Environmental
Managing/Control
Safety
Career
Hydroponics
Aquaculture
Soil science
Husbandry
Irrigation
Artificial ecosystems
Pesticides
Fertilizer
Food preparation/preservation
Integrated Pest Management (IPM)