





## SCHOOL OF MECHANICAL ENGINEERING

## **Metal Construction**

This specialty aims at training senior technicians for designing, performing, managing/ conducting and commercialisation of metal structures (bridges, towers, railways, airports, factories, locks, ports, silos, oils rigs, metal framework buildings).

#### **Expected Skills Generic skills**

- Work independently, collaborate as a team;
- Analysis and synthesis of professional documents (French, English);
- Oral, written and corporate communication skills within and without (French, English);
- Participate /engage in the management of the project;
- Know and make use of professional networks and institutions of metal construction sectors.

#### Specific Skills:

- Analyze the material means necessary to the achievement of the work;
- Streamline the Production and perform the quality control;
- Perform the calculation notes, design drawings in CAD/CAO and plans;
- Determine the estimated cost of a book and establish an estimate

- Work supervisor;
  Construction executive;
  Production manager in manufacturing facilities.
- \*\*Requirement: GCE A Level or its equivalence \*\*Duration: 2 years
- 677181621,68119810 3,698519854
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Social Work

The Social Work program trains students to counsel, prevent, and solve social issues while implementing effective social measures. Graduates work across public, private, and voluntary sectors, equipped with bilingual communication, ethical responsibility, and problem-solving skills. They contribute to social development, fostering positive change in communities and organizations.

## Specific Skills

Generalist Helping & Change Process Policy & Program Evaluation

Critical Analysis & Advocacy Professional Ethics & Diversity

### Career opportunities

- Case Worker
- Case Manager

- Group worker
- Community organizing; Social administration
- Policy/legislative advocacy

- Social welfare planning Social welfare agency management Counselor: Social Worker

- Therapist
- Teen Outreach Coordinator
- Child Welfare Specialist;
- Child Placement Agent Probation and Parole Officer
- Mental Health Worker;
- Rehabilitation Counselor- Program/ project development and management;
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## Beauty Esthetics : Fashion Clothing and Textile

This specialty trains professionals in hairdressing, hair care, and product expertise. Graduates can provide scientific and technological advice, manage teams, and develop business plans. They ensure occupational safety, allergy prevention, and customer satisfaction while mastering management tools, creativity, and communication skills to succeed in the evolving hairdressing industry.

### Specific Skills

Gain technical and general knowledge in fabric creation and production.

Organize and oversee the manufacturing process while ensuring quality control.

Develop business and management skills for the textile industry.

Communicate effectively in both French and English.

Utilize management and decision-support tools for efficient operations.

## Career opportunities

Apply knowledge and skills in fashion, clothing, and textiles to real-world scenarios.

Independently study and create new fashion and textile products.

Manage and direct activities while handling complex situations in the industry.

Develop research, investigative, and problem-solving skills.

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Beauty Esthetics : Hair Dressing

This specialty trains professionals in hairdressing, hair care, and product expertise. Graduates can provide scientific and technological advice, manage teams, and develop business plans. They ensure occupational safety, allergy prevention, and customer satisfaction while mastering management tools, creativity, and communication skills to succeed in the evolving hairdressing industry.

## Specific Skills

Develop technical, scientific, and managerial expertise for the hairdressing industry.

Stay updated on evolving products, techniques, and new materials.

Master a wide range of hairdressing techniques.

Acquire in-depth scientific knowledge related to hair care and treatment.

Ensure professional and customer-oriented service delivery

- Salon manager or Hairdressing Company Artistic director Entrepreneur
- Technico-shopping
  Adviser trainer
  Brand representative
- Assistant or adviser of companies manufacturing, marketing and distribution capillaries
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## **Beauty Esthetics : Beauty Care and Cosmetics**

The Cosmetics and Beauty Care program trains professionals in esthetic techniques, cosmetic science, and business management. Graduates master beauty care, makeup, and regulatory aspects while developing skills in bilingual communication, team leadership, and digital tools. They are equipped to create, manage, and innovate within the beauty and wellness industry.

### Specific Skills

Design and perform beauty care and makeup services.

Advise customers and sell cosmetic products and equipment.

Manage service units, cosmetic sales, and brand image.

Ensure quality control in cosmetic product manufacturing.

Oversee training, regulatory compliance, and financial management of beauty businesses.

## Career opportunities

Participants of this course would acquire skills that would enable them to work in the private or public sector as teachers, designers, cosmetic producers or distributors, consultants or assistant researchers, or may be self-employed.













Bakery and Food Processing

Bakery and food processing training equips professionals with skills in product design, quality control, and environmental protection. Graduates develop expertise in bilingual communication, teamwork, and ethical responsibility. With an understanding of industry trends and Cameroon's cultural heritage, they contribute to the global food and service industry's growth and sustainability.

## Specific Skills

**Food Processing Techniques** 

Hygiene & Safety

Problem-Solving

Innovation & Customization

## Career opportunities

Food Industry & Quality Control

Research & Academia

Entrepreneurship

International & Community Organizations

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Waste management training standardizes professional skills for waste operators through intensive training and evaluation. It emphasizes waste handling, data processing, ethical practices, teamwork, and business management. Graduates develop autonomy, research abilities, and proficiency in using technology for efficient waste management in diverse professional and multicultural environments.

### Specific Skills

- Develop different composting techniques, organisms for composting and the different types of composting systems; Develop skills in personnel development;
- Acquire techniques on the treatment of waste by incineration and thermal treatment;
- Analyze land filling system as a waste treatment method to the students;
- Diagnose and identify practical bottlenecks; Potential processing and storage contaminants;

## Career opportunities

Agriculture, Water and population management Ministries, Water management boards Hydro-electricity systems, Agro-industries Self-employment in water plumbing

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## Forest Engineering

Forestry Management training equips professionals with skills in sustainable forest exploitation, conservation, and research. It integrates scientific knowledge, data processing, and ethical practices to address forestry challenges. Graduates develop expertise in resource management, environmental laws, and adaptive research, ensuring responsible forestry practices in public, private, and nonprofit sectors.

## Specific Skills

Develop a vision and passion to solve practical problems relating to forestry in both the Public and Private Sector Knowledge and practical skills in sustainableforest exploitation and conservation techniques

## Career opportunities

Graduates can aspire for the following responsibilities and job opportunities in both the Public and Private Sector businesses, and Not-for-Profit organizations:

- EIA experts (engineers and technicians): EIA practitioners Environmental managers.
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Environmental Impact Assessment

Environmental Impact Assessment training equips professionals to evaluate and mitigate development-related environmental effects. It integrates scientific knowledge, data processing, and research with ethical and professional practices. Graduates develop expertise in impact analysis, environmental laws, and technical assessments, ensuring sustainable project planning in diverse professional and multicultural environments.

## Specific Skills

- Develop a vision and passion for the techniques of assessing environmental impacts of development projects.
- Solve practical problems relating to environmental impacts of development activities, Knowledge and practical skills in the techniques of assessing environmental impacts of development projects.

### **Career opportunities**

Graduates can aspire for the following responsibilities and job opportunities in both the Public and Private Sector businesses, and Not-for-Profit organizations:

- EIA experts (engineers and technicians): EIA practitioner's Environmental managers.
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Risk management training equips students with skills to collect data, establish early warnings, and handle adverse situations. It covers social, agricultural, business, and conflict risks. Graduates develop expertise in risk assessment, crisis response, data analysis, and ethical decision-making, ensuring effective risk mitigation in diverse professional and multicultural environments.

### Specific Skills

Risk Analysis & Assessment

Disaster Prevention & Management

**Economic & Social Risk Mitigation** 

Peace & Human Rights Advocacy

## Career opportunities

Insurance companies Services that need to be ensured Responsible in risk and regulatory change in banking

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Nature Management and Protection training equips students with s

Nature Management and Protection training equips students with skills to assess and conserve natural resources while understanding legal and ethical responsibilities. Key areas include environmental impact, climate change, pollution control, and land management. Graduates develop expertise in data analysis, research, and sustainable practices for effective environmental protection and conservation.

## Specific Skills

- Environmental Sustainability & Conservation
- **Ecosystem & Wildlife Management**
- Resource Use & Conflict Resolution
- **Environmental Protection & Policy Implementation**

- State ministries related to the environment;
- Botanical gardens;
- Tour guides, and conservationist jobs
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Food technology training develops skilled professionals to minimize post-production losses, prevent spoilage, and enhance food value through preservation and transformation. Graduates master ICT tools, data processing, teamwork, and business management while upholding ethics. Emphasizing research and continuous learning, the program prepares professionals for sustainable food process-

### Specific Skills

Post-Harvest & Production Management

Food Transformation & Preservation

Hygiene & Safety Standards

Food Processing Machinery Operation

## Career opportunities

- Technicians in bakery firms in Cameroon -
- Public health sector.

Food service officer

Laboratory technician

- Food technologist -

Product development specialist Food safety inspector/auditor

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Crop Production Technology

Training students in crop production technology would be adequate prepared to take or make sound technical decisions, regarding the most suitable location for successful establishment and profitable production of the major crops.

### Specific Skills

- Crop Growth & Management
- **Production Analysis & Consulting**
- Horticulture & Landscaping
- **Business & Farming Systems**

## Career opportunities

- Operations manager or culture within a company;
- Agricultural adviser (agricultural chamber, technical institute);
- Responsible for a supply unit (cooperative, chamber of agriculture);
- Technician breeder or experimenter in a research institute or a firm seed;
- \*\*Requirement: GCE A Level or equivalence

\*\*Duration: 2 years

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Animal Production Technology

This training equips students with expertise in animal breeds, breeding management, and health care for conventional and non-conventional animals. Graduates master ICT tools, data processing, teamwork, and business management. Emphasizing ethics, research, and continuous learning, the program fosters cost-effective and sustainable animal production in diverse professional environments:

### Specific Skills

- Animal Breeding & Management
- Health & Biosecurity
- **Production Analysis & Consulting**
- **Business & Farming Systems**

- Ministries related to animals and products;
- Animal production farms;
- Agro-industries (feed, processing, machinery);
  Self-employed in production and/or processing.
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Agro-Pastoral Entrepreneurship

This specialty prepares professionals to manage personnel, organize work, and oversee sustainable crop and livestock production systems while ensuring efficient enterprise management.

### Specific Skills

- **Business & Enterprise Management**
- Sustainable Agriculture & Livestock Production
- Data & Communication
- Professional & Multicultural Adaptability

- Promoter / owner of a family farm enterprise
- Manager/employee of agropastoral SMEs Non-Governmental Organizations(NGOs) and Programs -Audit-consulting of agropastoral enterprises
- Civil service (MINADER, MINEPIA, MINPMEESA, MINFOF, etc.)
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