Title of qualification	**Further Vocational Qualification in Production Technology, Competence area in Machining**
Total Competence	150 competence points
Duration	1.5 years
Tuition fee	16,900 EUR (1st year 11,300 EUR)
Exam Date	September – November 2026
Planned start	April 2027
Student selection	Written exam and Interview (English)
Location	School campus in Tampere City
Target group and Requirements	• Age: 22 - 45 • Upper secondary education or higher • Fluent English language skills • The school may require a motivation letter (to be updated) • Has technical interest, problem-solving ability, precision, attention to detail, patience, and ability to work with machines and technology • Clean criminal record
Language of instruction	• English and Finnish. The Finnish language is taught on arrival • Degree type: Finnish Vocational Qualification

Program content

Further Vocational Qualification in Production Technology, Competence area in Machining, certified by TAKK

Training format: The training is institution-based learning (theory and practice) with apprenticeship-based training

Training content: The programme consists of a total of 150 competence points (cps), including:

Compulsory Units (90 cps):

- Production Technology Operations and Manufacturing Planning (30 cps)
- 3D CAM Programming and CNC Manufacturing (60 cps)

Optional Units: (60 cps):

- 3D Coordinate Measurement (30 cps)
- Manual Machining (30 cps)
- Manufacturing and Maintenance of Tools (30 cps)
- Programming and Operation of EDM Machines (Electrical Discharge Machining) (30 cps)
- Foundry Pattern Manufacturing (30 cps)
- Grinding, Polishing and Surface Finishing (30 cps)
- Heat Treatment and Material Testing (30 cps)
- Industrial Procurement (30 cps)
- Utilisation of Robotics in Production (30 cps)
- Production Engineering Projects and Risk Management (30 cps)
- Development of Occupational Safety, Wellbeing and Working Environment in
- Manufacturing Industry (30 cps)

Job description and Career orientation:
During the studies, students can specialise in different professional fields through optional units:

- CNC Machining Operator: Programme and operate CNC machines to manufacture precise and diverse mechanical components according to technical and machine shop drawings, using 3D CAM software in the machining process.
- Foundry Pattern Makers: Produce and maintain casting patterns and mould models used in industrial manufacturing processes.
- Tool Makers: Manufacture, assemble and maintain industrial tools, fixtures and production equipment used in machining and manufacturing environments. Work with precision measurements and technical drawings

Professionals in this field are expected to have:

- Technical thinking and attention to detail
- A strong sense of responsibility
- The ability to work with industrial machinery and equipment
- Skills in reading technical drawings
- The ability to utilise automation and digital technologies
- Strict compliance with occupational safety regulations

With diverse vocational skills, graduates may work in various environments such as:

- Mechanical manufacturing plants and industrial production facilities
- CNC machining workshops
- Companies producing industrial components and equipment
- Production development and optimisation projects
- Robotics and automation applications
- Industrial procurement operations
- Occupational safety and working environment-related positions

Hotline for Consultation Booking

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