1. CERTIFICATE TITLE

Yrkeshögskoleexamen

Game Programmer

2. TRANSLATION OF CERTIFICATE TITLE

Higher Vocational Education Diploma

Game Programmer

This translation has no legal status.

3. SKILLS AND KNOWLEDGE PROFILE

The holder of this document has
- Knowledge of Agile teams and work processes.
- Knowledge of game theory and gamification.
- Knowledge of how to solve problems creatively.
- Knowledge of modern tools used in creating games.
- Knowledge of programming theory and methodology.
- Knowledge of algorithms and data structures.
- Knowledge of game programming.
- Knowledge of version control.
- Skills to use the correct industry terminology.
- Skills in time management and time estimates.
- Skills to create different development environments.
- Skills to contribute to product or game development.
- Skills to act and work professionally in a team.
- Skills to troubleshoot code.
- Skills in resource management and optimisation.
- Skills in the Unity game engine.
- Competence to act independently and professionally as a programmer.
- Competence to adapt form and content to any limitations.
- Competence to effectively and successfully communicate.
- Competence to create 2D and 3D games with advanced functions.
- Competence to participate in the creative development process and oversee technical knowledge and range.
- Competence to develop games and visualisation programs for VR.

4. PROFESSIONS AVAILABLE FOR THE HOLDER OF THE CERTIFICATE

Game Programmer, Programmer, Game Developer, Software Developer and Scripter

1. Title of the certificate – Yrkeshögskoleexamen [1]

Java Enterprise Utvecklare

2. Translated title of the certificate – Higher Vocational Education Diploma [2]

Java Enterprise Developer

3. Knowledge, skills and competence profile

The holder of the certificate has:

- Knowledge of system development.
- Knowledge of system analysis.
- Knowledge of setting system requirements.
- Knowledge of software design.
- Knowledge of server programming.
- Knowledge of conceptual software design.
- Knowledge of software implementation.
- Knowledge of database management.
- Knowledge of working and organisational forms in IT companies and projects.
- Skills in system development of object-oriented business logic.
- Skills in data modelling and designing databases.
- Skills in maintaining good structure in the software.
- Skills in working according to procedures in a modern working organisation.
- Skills in expressing themselves well in speech and writing.
- Competence to work on server programming in Java.
- Competence to assess the business benefit of information systems for different types of operations.
- Competence to take independent consulting assignments.
- Competence to document information systems.
- Competence to manage customer contacts at "their" level and care for these customers.
- Competence to structure their work processes.
- Competence to be a technical expert in project groups and teams in all types of activities.

4. Range of occupations accessible to the holder of the certificate [3]

Java Developer, Programmer, data, System Developer, Server Programmer and Consultant, data, system development

[1] In the original language. | [2] If applicable. This translation has no legal status. | [3] If applicable.