

Delivery / Session Plan

ICTGAM533 — Create complex 3-D interactive games

RTO	[RTO name]
Training package	Information and Communications Technology
Unit release	1 (current)
Delivery mode	online
Document	Session Plan · version 1.0 · review by [review date]

Session overview

Delivery mode	online
Total duration	16 weeks
Amount of training	72 hours structured training (derived from volume of learning — confirm)

Each element below is delivered as one or more sessions. Timings and dates are indicative and completed by the trainer against the group timetable.

Sessions by element

E1 — Prepare to create game

Indicative session time: ~964 minutes of learner activity (indicative — from the volume-of-learning allocation; confirm against the group timetable).

Slide / topic	Type	PCs covered	Indicative content
Element 1: Prepare to create game	element intro	—	Preparation turns ideas into production work Briefs, assets, schedules and controls matter Good planning protects creativity, budget and quality This...
1.1 Obtain the project brief	content	1.1	Start with the authorised brief Confirm scope, audience and platform Locate supporting production documents Do not rely on assumptions
1.1 Gather required supporting documents	content	1.1	Briefs rarely stand alone GDD, technical specs and art direction guide work Check platform and marketplace requirements Find the documents before estimating
1.1 Obtain organisational procedures	content	1.1	Procedures tell you how work must be done Version control and naming rules prevent rework Follow security, WHS and communication practices Use the studio...
1.1 Validate and clarify requirements	content	1.1	Check documents against each other Identify gaps, conflicts and assumptions Ask targeted questions early Record decisions as production evidence

Slide / topic	Type	PCs covered	Indicative content
1.2 Identify asset categories	content	1.2	Assets are all production items used in the game List assets against creative and technical needs Include art, audio, code, UI and data Beta assets must...
1.2 Translate creative requirements into assets	content	1.2	Creative direction drives asset choices Art style affects workload and performance Define quality level and acceptance criteria Assets must support the...
1.2 Translate technical specifications into assets	content	1.2	Technical specs set asset limits Engines have capabilities and constraints Plan LODs, collision, shaders and memory Performance is an asset requirement
1.2 Build an asset register	content	1.2	Use an asset register to control production Record owner, status, format and acceptance criteria Prioritise beta-critical assets Track dependencies and risks
1.3 Discuss asset formats with required personnel	content	1.3	Formats affect whether assets can be used Talk to artists, programmers and technical leads Agree source and export formats Document decisions before...
1.3 Discuss integration issues	content	1.3	Integration is where assets meet the engine Check scale, pivots, rigs, materials and data Resolve issues with the people who own them Use test imports early
1.3 Agree technical budgets and engine constraints	content	1.3	Budgets protect performance Shader, polycount and memory limits must be discussed Engine features involve trade-offs Agree acceptance criteria with...
1.3 Document integration decisions	content	1.3	Discussion must become production instructions Update the asset register and pipeline guide Record unresolved issues and owners Make the Definition of Done...
1.4 Understand beta-version prototype purpose	content	1.4	A beta prototype is a quality gate Sequence work around what must be tested Prototype to prove game play, not every feature Define the beta success criteria
1.4 Map dependencies and critical path	content	1.4	Sequence depends on task dependencies Critical path controls the earliest beta date High-risk systems must start early Avoid blocking downstream work
1.4 Build the beta development sequence	content	1.4	Use milestones to structure the sequence Greybox, vertical slice, alpha and beta are different Integrate and test progressively Keep the game playable...
1.4 Plan iteration and beta readiness	content	1.4	Game play needs iteration to find the fun Beta readiness needs clear gates Use feedback loops without losing scope Known exceptions must be controlled

Slide / topic	Type	PCs covered	Indicative content
1.5 Create a production schedule	content	1.5	A schedule converts sequence into dates Break work into tasks and milestones Estimate with the people doing the work Include dependencies, reviews and buffers
1.5 Schedule asset production and integration	content	1.5	Assets need creation, review and integration time Dependencies must be visible Prioritise beta-critical items Do not leave integration to the end
1.5 Schedule testing throughout production	content	1.5	Testing is part of production, not an afterthought Plan QA checkpoints and playtests Include bug fixing and retesting Use builds that match the test purpose
1.5 Balance schedule, scope and quality	content	1.5	Schedules involve trade-offs Protect the critical path and beta goal Plan contingency without hiding risk Keep the schedule maintainable
1.6 Define monitoring strategies	content	1.6	Monitoring compares progress with the schedule Use clear metrics and visible workflow Track tasks, milestones, risks and quality Monitoring must trigger action
1.6 Monitor quality and Definition of Done	content	1.6	Progress is not just task completion Done means accepted against criteria Use QA checkpoints throughout the pipeline Track defects, rework and build health
1.6 Manage variance, risk and critical path	content	1.6	Variance shows the gap between plan and reality Risks must be reviewed and acted on Critical path slippage threatens beta delivery Escalate early with options
1.6 Communicate progress and update the schedule	content	1.6	Monitoring outputs must be communicated Use agreed reporting rhythms Update schedules when decisions change Keep evidence for production control
Knowledge check: Preparing to create game	knowledge check	1.1, 1.2, 1.3, 1.4, 1.5, 1.6	Check your understanding Choose the best answer for each question Focus on workplace application Review the relevant slides if needed
Element summary: Prepare to create game	element summary	1.1, 1.2, 1.3, 1.4, 1.5, 1.6	Preparation creates a controlled production baseline Assets must meet creative and technical requirements Beta sequencing, scheduling and monitoring reduce...

Assessment for this element: E1 Knowledge Questions — Prepare to create game (knowledge questions); E1 Project — Plan the game production (project (submitted evidence)).

E2 — Evaluate capability of game-engine software and tools

Indicative session time: ~688 minutes of learner activity (indicative — from the volume-of-learning allocation; confirm against the group timetable).

Slide / topic	Type	PCs covered	Indicative content
Element 2: Evaluate capability of game-engine software and tools	element intro	—	Choose tools for the game, not the hype Compare engines, tools and constraints Match selection to play requirements Confirm decisions with the right people...
2.1 Build a current view of industry-standard engines	content	2.1	Start with the market and project context Review engines, not just brand names Include commercial, open-source and specialist tools Check current licensing...
2.1 Review the broader development toolchain	content	2.1	The engine is only part of production Review DCC, audio, version control and build tools Check integration, licensing and collaboration Match tools to team...
2.1 Compare engine capabilities using evidence	content	2.1	Use criteria, not impressions Compare rendering, scripting and workflow Include performance and profiling tools Test claims against documentation Note...
2.1 Review constraints, licences and industry conditions	content	2.1	Capability includes constraints Check hardware, licence and platform limits Consider privacy, copyright and classification Evaluate total production cost...
2.2 Translate the game concept into requirements	content	2.2	Start from the specified game concept Define play, platform and production needs Separate must-have from nice-to-have Turn ideas into testable requirements...
2.2 Assess play requirements against engine systems	content	2.2	Map gameplay to engine features Check physics, animation, camera and UI Assess scripting and debugging needs Consider multiplayer and AI early Prototype...
2.2 Assess hardware constraints and performance fit	content	2.2	Hardware limits shape design choices Assess CPU, GPU, memory and storage Match fidelity to target platform Use profiling, not guesses Plan scalable quality...
2.2 Assess asset integration and production pipeline	content	2.2	Assets must move cleanly into the engine Check formats, scale, materials and rigs Plan naming, folders and version control Test import and reimport early...
2.3 Identify required personnel and their decision needs	content	2.3	Engine choice affects many roles Consult the right personnel early Use evidence each role can evaluate Resolve conflicting priorities Record decisions and...
2.3 Discuss selection considerations clearly	content	2.3	Frame discussion around outcomes Explain trade-offs, not just preferences Use a structured agenda Capture questions and decisions Escalate unresolved risks

Slide / topic	Type	PCs covered	Indicative content
2.3 Confirm the choice will meet specified outcomes	content	2.3	Confirmation needs evidence Use proof of concept where risk is high Check outcomes against requirements Define acceptance criteria Record approval and...
2.3 Manage disagreement, risk and change	content	2.3	Disagreement is normal in tool selection Use decision criteria to resolve conflict Document risks and mitigations Escalate issues that affect outcomes Keep...
2.4 Make the final software and tool selection	content	2.4	Selection is a documented production decision Choose engine, version and core tools Link the choice to outcomes Define conditions and responsibilities...
2.4 Select for creative, production and technical balance	content	2.4	Balance competing requirements Do not over-select for one discipline Protect schedule and maintainability Support the intended player experience Choose the...
2.4 Lock in the asset and integration toolchain	content	2.4	Selection includes asset workflow rules Choose formats and import settings Define naming and folder conventions Plan version control for binary assets Test...
2.4 Document, justify and prepare the selected environment	content	2.4	Document the final decision Justify against evidence and outcomes Set up the environment consistently Plan onboarding and validation Review if assumptions...
Knowledge check: evaluating engines and tools	knowledge check	2.1, 2.2, 2.3, 2.4	Test your engine selection judgement Choose the best answer for each question Focus on evidence, requirements and constraints
Element 2 summary	element summary	2.1, 2.2, 2.3, 2.4	Review a range of current engines and tools Assess against the specified game concept Consult required personnel using evidence Confirm outcomes, risks and...

Assessment for this element: E2 Knowledge Questions — Evaluate game-engine software and tools (knowledge questions); E2 Project — Select the game engine and tools (project (submitted evidence)).

E3 — Prepare required assets for a game

Indicative session time: ~688 minutes of learner activity (indicative — from the volume-of-learning allocation; confirm against the group timetable).

Slide / topic	Type	PCs covered	Indicative content
Prepare required assets for a game	element intro	—	Shared environments prevent asset chaos Assets must match the engine and platform Create, acquire, customise, then test Good asset preparation protects...

Slide / topic	Type	PCs covered	Indicative content
3.1 Plan the shared asset environment	content	3.1	Start with the pipeline, not the folder Define source files, exports and engine files Separate working files from game-ready assets Document the rules...
3.1 Choose version control for asset sharing	content	3.1	Game assets are often large binary files Use central repositories and file history Use locking where merge conflicts are likely Protect both code and...
3.1 Organise folders, names and metadata	content	3.1	Use predictable folders Use consistent asset names Track status, owner and dependencies Make assets easy to find and safe to change
3.1 Control access, reviews and project risk	content	3.1	Assign ownership and permissions Schedule asset reviews and integration tests Manage copyright, security and WHS risks Keep the shared environment auditable
3.2 Read the game design into asset requirements	content	3.2	Start from gameplay and visual purpose Translate design into asset attributes Record measurable requirements Identify dependencies before production
3.2 Review file formats and import attributes	content	3.2	Formats affect what data survives import Check mesh, UV, material and animation data Confirm units, axes and scale Use import presets where possible
3.2 Review engine and hardware constraints	content	3.2	Engines enable features and impose limits Hardware affects memory, frame rate and input Review assets against the target platform Use measurement, not...
3.2 Review assets through scheduled tests	content	3.2	Review in the engine, not only in art tools Use checklists and acceptance criteria Schedule testing across milestones Record defects and required changes
3.3 Create visual assets in-house	content	3.3	Create from the asset brief Use blockout before final detail Keep source files and exports separate Check art, topology and gameplay purpose
3.3 Acquire assets legally and strategically	content	3.3	Check licence before download or purchase Match style, scale and technical needs Record source, terms and attribution Budget time for adaptation and testing
3.3 Prepare acquired assets for the project pipeline	content	3.3	Quarantine and inspect new assets Scan, organise and rename safely Convert only after preserving originals Test imports before approval
3.3 Produce asset packages for integration	content	3.3	Deliver complete asset packages Include source, exports and review notes Commit changes with useful messages Make integration repeatable
3.4 Customise scale, orientation and materials	content	3.4	Engine defaults are not universal Fix scale, pivots and axes Convert materials to project shaders Use presets to avoid repeated errors
3.4 Optimise meshes, textures and memory	content	3.4	Optimisation depends on platform and camera Use LODs, compression and batching wisely Balance visual quality with performance Profile before and after changes

Slide / topic	Type	PCs covered	Indicative content
3.4 Configure collision, physics and interaction attributes	content	3.4	Visual shape is not gameplay shape Set collision for purpose and performance Add sockets, tags and components Test interactions in real gameplay scenes
3.4 Validate customised assets in the chosen engine	content	3.4	Test in representative scenes Check builds, not only editor previews Track defects and approvals Update documentation when attributes change
Knowledge check: preparing game assets	knowledge check	3.1, 3.2, 3.3, 3.4	Check your understanding Choose the best answer for each question Focus on workplace asset preparation decisions
Element summary: prepare required assets	element summary	3.1, 3.2, 3.3, 3.4	Build a shared asset environment Review attributes against engine and platform Create or acquire assets with legal control Customise and validate assets...

Assessment for this element: E3 Knowledge Questions — Prepare required assets (knowledge questions); E3 Project — Prepare and customise game assets (project (submitted evidence)).

E4 — Use game-engine software and development tools

Indicative session time: ~551 minutes of learner activity (indicative — from the volume-of-learning allocation; confirm against the group timetable).

Slide / topic	Type	PCs covered	Indicative content
Using the engine as a production tool	element intro	—	Build the playable prototype in-engine Connect code, assets and scenes Check gameplay against requirements Run the prototype as a presentation Confirm...
4.1 Scripts, code and the engine workflow	content	4.1	Scripts turn assets into behaviour Engine code usually attaches to objects Use language and engine APIs correctly Plan before editing production files Keep...
4.1 Creating and modifying scripts deliberately	content	4.1	Translate requirements into logic Use engine events and components Expose designer-tunable values Debug with console output and breakpoints Avoid...
4.1 Combining assets into playable objects	content	4.1	Assets are files used by the project Import settings affect quality and performance Prefabs and blueprints support reuse Check scale, orientation, materials...
4.1 Combining code and assets through reusable systems	content	4.1	Reusable objects reduce rework Connect scripts to assets through references Use version control and naming conventions Validate behaviour after every...
4.2 Defining gameplay elements from requirements	content	4.2	Gameplay elements are playable systems Start from creative and technical requirements Convert the brief into acceptance checks Balance fun, clarity, scope...

Slide / topic	Type	PCs covered	Indicative content
4.2 Building core gameplay elements in-engine	content	4.2	Prototype the minimum playable loop Use engine systems for input, physics and UI Create feedback for player actions Check interactions in context Keep...
4.2 Checking gameplay against technical constraints	content	4.2	Target hardware shapes design Profile before guessing Check frame rate, memory and input Optimise assets and scripts early Record risks and critical path items
4.2 Quality checking gameplay elements	content	4.2	Check function, feel and fit Use test cases and playtest notes Compare results to acceptance checks Track defects and decisions Confirm the element is...
4.3 Preparing to run the prototype as a presentation	content	4.3	A presentation build must be controlled Define the intended play sequence Use a clean scene and reliable start state Check assets, code and settings before...
4.3 Testing the prototype in editor and build	content	4.3	Use play mode for fast iteration Use packaged builds for real validation Check console logs and runtime errors Test sequence start to finish Compare editor...
4.3 Confirming sequences meet creative and production requirements	content	4.3	Check the sequence against the brief Review pacing, clarity and player feedback Confirm milestone scope Document known limitations Use stakeholder-ready...
4.3 Confirming technical requirements and final readiness	content	4.3	Validate target platform and settings Check performance and asset integration Triage defects before presentation Freeze the build when ready Archive...
Knowledge check: engine tools and prototype readiness	knowledge check	4.1, 4.2, 4.3	Check your understanding Choose the best answer for each question Focus on workplace application Review the content if unsure
Element summary: using engine tools professionally	element summary	4.1, 4.2, 4.3	Create and modify scripts safely Combine assets into reusable systems Build and check gameplay elements Test editor and packaged versions Present a...

Assessment for this element: E4 Knowledge Questions — Use game-engine software and development tools (knowledge questions); E4 Project — Build and run the game prototype (project (submitted evidence)).

E5 — Evaluate game prototype

Indicative session time: ~964 minutes of learner activity (indicative — from the volume-of-learning allocation; confirm against the group timetable).

Slide / topic	Type	PCs covered	Indicative content
Evaluate the game prototype	element intro	—	Prototype evaluation protects the project Feedback turns an idea into a playable product Evidence supports go, change or stop decisions Endorsement...
5.1 Identify who must see the prototype	content	5.1	Required personnel are decision-makers and specialists Map each person to the feedback they can provide Prepare the build for their role and authority...
5.1 Prepare the demonstration build	content	5.1	Show the intended gameplay loop State what is prototype and what is final Control technical risk before the session Use a clear demo script
5.1 Run the demonstration professionally	content	5.1	Set context before asking for opinions Demonstrate, then let reviewers interact Separate observation from explanation Capture feedback in a traceable format
5.1 Turn comments into usable feedback	content	5.1	Capture exact comments and evidence Classify feedback by type and severity Clarify ambiguous statements Protect confidentiality and IP
5.2 Define evaluation criteria	content	5.2	Criteria must be agreed before judgement Include creative and user-friendly outcomes Link criteria to the brief and target player Use measurable evidence...
5.2 Evaluate creativity	content	5.2	Creativity must serve the player experience Judge novelty, coherence and feasibility Compare against genre expectations Avoid confusing polish with creative...
5.2 Evaluate user-friendliness	content	5.2	User-friendly means playable by the intended user Check goals, controls, feedback and recovery Observe behaviour, not only opinions Consider accessibility...
5.2 Make the evaluation decision	content	5.2	Compare evidence against each criterion Identify pass, change, defer or stop decisions Consider engine and hardware constraints Document the reasoning
5.3 Prepare for change discussions	content	5.3	Bring evidence, not just preferences Group feedback into change themes Separate must-have from nice-to-have Check impact on scope and schedule
5.3 Negotiate required changes	content	5.3	Agree the problem before choosing the fix Compare options using criteria and constraints Record decisions and dissenting risks Maintain professional...
5.3 Document agreed changes	content	5.3	Write changes as actionable work items Define owner, priority and acceptance criteria Update schedule, risks and dependencies Keep version history traceable
5.3 Confirm shared agreement	content	5.3	Check that required personnel accept the plan Resolve conflicts before implementation Communicate decisions to the whole team Protect the milestone baseline
5.4 Understand tests and user trials	content	5.4	Testing checks quality and function User trials observe real player experience Define goals before recruiting testers Prototype tests must be ethical and safe

Slide / topic	Type	PCs covered	Indicative content
5.4 Assist with test planning	content	5.4	Create scenarios and tasks Prepare builds, devices and data sheets Schedule around dependencies Assign roles for facilitation and observation
5.4 Support test execution	content	5.4	Set up consistently for each participant Facilitate without coaching Record observations and defects accurately Escalate safety or technical issues quickly
5.4 Manage test data and defects	content	5.4	Use consistent issue logging Attach evidence and reproduction steps Protect participant data Feed results back into the evaluation cycle
5.5 Organise user trial feedback	content	5.5	Clean and categorise feedback before analysis Separate observations, comments and metrics Look for patterns across participants Link findings to evaluation...
5.5 Interpret player feedback carefully	content	5.5	Players identify symptoms more than solutions Compare feedback with design intent Check sample limits and bias Use evidence to infer causes
5.5 Evaluate technical and production implications	content	5.5	Feedback may reveal hidden technical risk Check engine, hardware and asset constraints Estimate impact before recommending changes Update risk and critical...
5.5 Produce evaluation findings	content	5.5	Summarise findings against criteria Prioritise recommendations Identify what needs retesting Communicate confidence and limitations
5.6 Understand endorsement	content	5.6	Endorsement is formal approval to proceed Required personnel must accept evidence and risks Approval may be conditional Record endorsement clearly
5.6 Plan the transition to complete product	content	5.6	Prototype code and assets may not be production-ready Define production scope and milestones Resolve technical debt and pipeline risks Protect the creative core
5.6 Build the production roadmap	content	5.6	Break the complete product into milestones Schedule development and testing together Manage dependencies and critical path Plan for target hardware and...
5.6 Maintain endorsement through development	content	5.6	Use endorsement as a baseline Track conditions, risks and change requests Keep stakeholders informed Validate the complete product against the prototype promise
Knowledge check: evaluating a game prototype	knowledge check	5.1, 5.2, 5.3, 5.4, 5.5, 5.6	Check your understanding Choose the best answer for each question Focus on evidence-based prototype evaluation
Element summary: evaluate game prototype	element summary	5.1, 5.2, 5.3, 5.4, 5.5, 5.6	Demonstrate the prototype to required personnel Evaluate against creative, usability and technical criteria Agree and document required changes Use trials...

Assessment for this element: E5 Knowledge Questions — Evaluate game prototype (knowledge questions); E5 Project — Evaluate and endorse the prototype (project (submitted evidence)).

E6 — Transform prototype into final publication

Indicative session time: ~826 minutes of learner activity (indicative — from the volume-of-learning allocation; confirm against the group timetable).

Slide / topic	Type	PCs covered	Indicative content
From prototype to publication	element intro	—	Prototype evidence becomes release decisions Final builds must match the specification QA checks protect navigation, stability and player flow Sign-off and...
6.1 Interpreting user trial evidence	content	6.1	Separate evidence from opinion Prioritise issues by player impact Record defects and enhancement requests Protect participant privacy and consent
6.1 Converting feedback into change requests	content	6.1	Write clear change requests Link each change to evidence Check scope, schedule and risk Use version control before editing
6.1 Implementing and retesting changes	content	6.1	Fix in small controlled increments Retest the original issue Run regression checks nearby Update documentation and build notes
6.1 Closing user-trial changes	content	6.1	Confirm acceptance criteria Mark status accurately Keep evidence for sign-off Avoid unapproved feature creep
6.2 Reading the specification before integration	content	6.2	Use the GDD as the integration baseline Check required systems, assets and platforms Confirm acceptance criteria Identify dependencies before merging
6.2 Integrating assets and systems	content	6.2	Import assets in approved formats Connect scripts, prefabs and scenes Resolve dependencies and missing references Optimise for target hardware
6.2 Integrating gameplay, UI and audio	content	6.2	Connect mechanics to player feedback Check UI, input and accessibility options Balance audio with gameplay events Validate save, progress and failure states
6.2 Confirming feature completeness	content	6.2	Feature-complete means all required systems are present Alpha is not final polish Track gaps and dependencies Do not hide missing specification items
6.3 Planning final navigation checks	content	6.3	Use the navigation design as the test source Check menus and in-game sequences Look for dead ends and softlocks Test on the target input devices
6.3 Checking gameplay sequences	content	6.3	Verify trigger order and state changes Test checkpoints, objectives and cutscenes Probe for progression breaks Confirm recovery from failure states

Slide / topic	Type	PCs covered	Indicative content
6.3 Final QA passes and defect triage	content	6.3	Run smoke, functional and regression tests Prioritise crashes and progression breaks Record build numbers and evidence Escalate release risks early
6.3 Confirming conformity and readiness	content	6.3	Compare results to navigation design Update the test report List unresolved known issues Recommend proceed, fix or defer
6.4 Understanding final sign-off	content	6.4	Sign-off is a formal release gate Identify who must approve Provide evidence, not assumptions Record decisions and conditions
6.4 Preparing for the sign-off review	content	6.4	Freeze the candidate build Prepare release evidence Brief reviewers on scope and risks Use clear acceptance criteria
6.4 Managing feedback during sign-off	content	6.4	Classify review comments Fix only approved blockers Document deferrals and conditions Retest after any sign-off change
6.4 Recording final approval	content	6.4	Capture who approved what build Store sign-off evidence securely Communicate release status Do not release without authority
6.5 Planning the final publication package	content	6.5	Follow organisational distribution procedure Package for the target platform Include required documentation Use versioned, approved release files
6.5 Building for engines and platforms	content	6.5	Select the correct target platform Check engine packaging constraints Test the packaged build, not only the editor Resolve missing assets and plugins
6.5 Documentation, licences and compliance materials	content	6.5	Include release notes and instructions Confirm asset licences and credits Prepare classification or store materials if needed Protect privacy and player data
6.5 Distributing and archiving the final publication	content	6.5	Upload through approved channels Verify download, install and launch Archive the exact approved build Prepare for post-release support
Knowledge check: final publication readiness	knowledge check	6.1, 6.2, 6.3, 6.4, 6.5	Check your understanding Choose the best answer for each question Focus on workplace release decisions
Element summary: transforming prototype into publication	element summary	6.1, 6.2, 6.3, 6.4, 6.5	Use trial evidence to drive controlled changes Integrate against the approved specification Confirm navigation and sequences through QA Obtain traceable...

Assessment for this element: E6 Knowledge Questions — Transform prototype into final publication (knowledge questions); E6 Project — Deliver the final publication (project (submitted evidence)).

DRAFT session plan — confirm timings and LMS resources before delivery.