



LEARNER NAME: _____

CLASS: _____

Component Title	Fundamentals of Object Oriented Programming	Component Code	5N0541
Assessment Technique	Skills Demonstration 1	Weighting	20%

Brief: Design, code and create a basic Luas train ticket booking system

Guidelines: Your program interface should be designed using a Switch statement to call relevant methods and logical program blocks.

Your program should use appropriate data types to simulate and model the problem

In addition to selling different ticket types, your program should keep a record of all transactions – total number of tickets sold, total value of cash entered into the machine and the average cash per transaction. As part of your program there should be at least two instances of data type conversions (Converting a String to Integer etc)

Appropriate program documentation to include an algorithm, relevant screen captures, digital/visual evidence of the development cycle and indicative critical reasoning

Marking Scheme:

Assessment Criteria	Maximum Mark	Learner Mark
Clearly Documented Source Code <ul style="list-style-type: none">algorithm providedintelligent use of comments	4	
Program Functionality <ul style="list-style-type: none">working programprudent use of print formatting	4	
Accurate Programming (Syntax and Semantics) <ul style="list-style-type: none">appropriately named identifiers (class, method, fields/variables)correctly implemented data typesappropriate data type conversion performedno syntax or semantic errors	8	
Software Testing/Debugging <ul style="list-style-type: none">evidence of software testing, e.g., documentation of problems/bugsscreen captures, visual/digital evidence provided	4	
Total Mark	20	

Issue Date:	2 nd December 2015	Submission Date:	15 th January 2015
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Note:

- Work submitted after the above submission date **must be** accompanied by a **fully completed** Mitigating Circumstances Form and relevant documentation.
- All work must be spellchecked. No spelling waiver will apply.

FEEDBACK SECTION To be completed when feedback on submitted work is given by the Tutor

Tutor's Feedback and Comments
Strengths:
Areas for improvement:

Note: Any results issued are provisional pending the completion of the External Authentication Process in May/June 2016.

Feedback has been provided in relation to work submitted for this assignment:

Tutor Signature: _____ **Date:** _____

Learner Signature: _____ **Date:** _____ OR Student absent for feedback ☐