2022200307 18 Jan 2022

Claims

1. A computer implemented method of providing information for risk management executed on a computer including a processor, a memory, a network interface, and a touch display screen, the method comprising:
receiving, in the processor via the network interface, first information identifying permits, second information identifying plans, third information identifying risk assessment and fourth information identifying equipment;
displaying on the touch display screen the first information identifying permits, second information identifying plans, third information identifying risk assessment and fourth information identifying equipment;
providing access to data relating to permits, plans, risk assessment and equipment respectively with a touch on the touch display screen proximal to displayed first information identifying permits, second information identifying plans, third information identifying risk assessment and fourth information identifying equipment;
upon receiving a touch signal proximal the displayed third information identifying risk assessment, displaying one or more fifth information identifying job safety assessments identifiers; and
upon receiving a touch signal on the touch display screen proximal to the displayed one or more fifth information identifying job safety assessment identifiers, providing access to data relating to permits, plans and equipment associated with respect to a particular job safety assessment identifier.

2. The method of claim 1 wherein upon receiving a touch signal proximal the displayed third information identifying risk assessment, receiving and displaying one or more fifth information identifying job safety assessments identifiers, the method further comprises:
displaying an icon;
upon receiving a touch signal on the touch display screen proximal to the displayed icon, receiving and displaying on the touch display screen one or more information identifying log queries;
upon receiving a touch signal proximal to one or more displayed information identifying log queries, transmitting to a remote server one or more data relating to the received touch signal;

the remote server providing processing to auto-populate the one or more data relating to the received touch signal proximal to one or more displayed information identifying log queries into a document having a log form; and storing the document having log form.

3. The method of claim 1 further comprising:
receiving a touch signal proximal the displayed first information identifying permits;
upon receiving a touch signal on the touch display screen proximal to the first information identifying permits, receiving and displaying on the touch display screen one or more information identifying specific permits, wherein the information identifying the specific permits includes indicia indicating whether the permit is in force or whether the permit has expired.

4. The method of claim 3 wherein the computer further includes GPS tracking, the method further comprising:
at a remote location, tracking the location of the computer via the GPS;
at the remote location, processing whether permits relating to jobs at the location of the computer have expired;
if the permits relating to the location of the computer have expired, transmitting a notification of the same for delivery to the computer.

5. A computer implemented method of providing information for risk management executed on a computer including a processor, a memory, a network interface, and a touch display screen, the method comprising:
displaying an icon indicative of information identifying a process period;
upon receiving a touch signal on the touch display screen proximal to the displayed icon, receiving and displaying on the touch display screen one or more information identifying log queries;
upon receiving a touch signal proximal one or more displayed information identifying log queries, transmitting to a remote server one or more data relating to the received touch signal;
the remote server providing processing to auto-populate the one or more data relating to the received touch signal proximal to one or more displayed information identifying log queries into a document having a log form; and storing the document having a log form.

6. A computer implemented method of providing information for risk management executed on a computer including a processor, a memory, a network interface, and a touch display screen, the method comprising:
receiving, in the processor via the network interface information identifying permits;
displaying on the touch display screen the information identifying permits;
receiving a touch signal proximal the displayed information identifying permits;
upon receiving a touch signal on the touch display screen proximal to the information identifying permits, receiving and displaying on the display screen one or more information identifying specific permits, wherein the information identifying specific permits includes indicia indicating whether the permit is in force or whether the permit has expired.

7. The method of claim 6 wherein the computer further includes GPS tracking, the method further comprising:
at a remote location, tracking the location of the computer via the GPS;
at the remote location, processing whether permits relating to jobs at the location of the computer have expired;
if the permits relating to the location of the computer have expired, transmitting a notification of the same for delivery to the computer.

8. The method of claim 7 further comprising tracking time correlated with location tracking.

9. A method comprising:
selecting a job to be performed by a person in possession of the portable device;
downloading information related to the job to the portable device, the information comprising permits required for the job, plans for implementation of the occupational health and safety aspects of the job, risks associated with the job, equipment used in relation to the job;
displaying a corresponding indicia for selection of each one of: the information relating to permits required for the job, the information relating to plans for implementation of the occupational health and safety aspects of the job, the information relating to risks associated with the job, the information relating to equipment used in relation to the job;

receiving a selection of one of the indicia;
displaying at least a portion of the downloaded information according to the received selection;
receiving input to the portable device relevant to use of the displayed information in relation to performance of the job by the person;
uploading the input, whereby a record of use of the displayed information in relation to performance of the job by the person is able to be stored.

10. A portable device comprising a processor configured to perform:
selection of a job to be performed by a person in possession of the portable device;
downloading information related to the job to the portable device, the information comprising permits required for the job, plans for implementation of the occupational health and safety aspects of the job, risks associated with the job, equipment used in relation to the job;
displaying a corresponding indicia for selection of each one of: the information relating to permits required for the job, the information relating to plans for implementation of the occupational health and safety aspects of the job, the information relating to risks associated with the job, the information relating to equipment used in relation to the job;
receiving a selection of one of the indicia;
displaying at least a portion of the downloaded information according to the received selection;
receiving input to the portable device relevant to use of the displayed information in relation to performance of the job by the person;
uploading the input, whereby a record of use of the displayed information in relation to performance of the job by the person is able to be stored.

11. The device of claim 10, wherein the selection of the job comprises selection of a job type and the job type preselects the information to be downloaded according to the job type from a library of information available.

12. The device of claim 10, wherein the information comprises information from a form that is to be completed when a job of the job type is to be performed and the input is information to be completed on the form when the job of the job type is about to be performed or has been completed.

13. The device of claim 10, wherein the information comprises one or more checks that are able to be performed by the portable device so as to indicate to the user whether or not they are permitted to perform the job according to the input received in respect to the information displayed.

14. A system comprising a processor configured to:
select a job to be performed by a person in possession of a portable device;
download information related to the job to the portable device, the information comprising permits required for the job, plans for implementation of the occupational health and safety aspects of the job, risks associated with the job, equipment used in relation to the job;
displaying a corresponding indicia for selection of each one of: the information relating to permits required for the job, the information relating to plans for implementation of the occupational health and safety aspects of the job, the information relating to risks associated with the job, the information relating to equipment used in relation to the job;
receive a selection of one of the indicia;
display at least a portion of the downloaded information according to the received selection;
receive input to the portable device relevant to use of the displayed information in relation to performance of the job by the person;
upload the input, whereby a record of use of the displayed information in relation to performance of the job by the person is able to be stored.

15. The system of claim 14, wherein the system comprises a database hierarchically structured by job, and within each job there are fields related to an organisational structure for performance of the job and a tasked structure for performance of the job.

16. The system of claim 15, wherein the organisational structure comprises one or more of: information on procedures, risk limits, personnel, chemicals, equipment and lists.

17. The system of claim 16, wherein the lists comprises one or more of: method steps, tasks, risks and controls.

18. The system of claim 16 or 17, wherein the job structure comprises one or more of: job details, client details, job roles, plans/specifications and risk alerts.

19. The system of claim 14, wherein the database further comprises communications records.

20. The system of claim 19, wherein the communication records further comprises one or more of: meetings, reports, completed forms.

21. The system of claim 20, wherein the completed forms comprises one or more of: permits, plans, equipment and risk assessments.

22. The system of claim 14, wherein the database further comprises permissions for actors to create, edit and access the database.

23. The system of claim 22, wherein the permissions are set according to whether the actor is a head office employee, a project manager, a site supervisor or field personnel.

24. system of claim 23, wherein the field personnel access the present invention via a mobile application.

25. The system of claim 23, wherein the site supervisors access the present invention via a mobile application.

26. The system of claim 23, wherein the project managers access the present invention via a mobile application or a personal computer.

27. The system of claim 23, wherein the head office personnel access the present invention via a personal computer.

28. The system of claim 23, wherein project managers have permission to define and allocate plans to achieve the job requirements and all actors are able to view the plan.

29. The system of claim 23, wherein site supervisors, and project managers, have permission to create permits and field personnel have permission to view and accept a permit allocated to them.

30. The system of claim 23, wherein site supervisors, and project managers, have permission to create (JSAs) and field personnel have permission to accept or suggest a change to a JSA.

31. The system of claim 23, wherein field personnel have permission to create a pre-start checklist.

32. The system of claim 31, wherein field personnel do not have permission to view another person’s pre-start checklist.

33. The system of claim 31, wherein site supervisors and project managers can access the pre-start checklists.

34. The system of claim 31, wherein where a pre-start checklist is not successfully completed, the system is configured to create an alert in relation to the failed checklist.

35. The system of claim 14, wherein field personnel have permission to create a quick risk assessment.

36. The system of claim 35, wherein field personnel do not have permission to view another person’s quick risk assessment.

37. The system of claim 35, wherein site supervisors and project managers can access the quick risk assessments.

38. The system of claim 35, wherein where a quick risk assessment is not successfully completed, the system is configured to create an alert in relation to the failed quick risk assessment.

39. The system of claim 23, wherein head office personnel have permission to create a register and other actors have permission to view the register.

40. The system of claim 23, wherein head office personnel have permission to create an alert for all actors on a job.

41. The system of claim 23, wherein field personnel have permission to create a hazard report or an incident report and head office personnel have permission to access the report.

42. The system of claim 14, wherein the system is configured to display four major icons on a mobile device for selection on a home screen, where the icons each represent permits, plans, equipment or risk assessments, respectively.

43. The system of claim 42, wherein viewing of information and entry of information related to one of these is hierarchally displayed or received.

44. The system of claim 43, wherein menu options under these headings are presented, with a sequential progression from one screen to the next to complete one or more forms relating to these types of information.

45. The system of claim 14, wherein the system is configured to provide a communications icon on the home screen which enables access to communications tools.

46. The system of claim 45, wherein the communications icon also represents when a communication is requiring the attention of the actor.

47. The system of claim 15, wherein the mobile device is configured to synchronise data with the system database when network communication is re-established after network communication is broken.

48. The system of claim 47, wherein the mobile device is configured with searchable and expandable lists of information.

49. The system of claim 14, wherein the system is configured to log data entered and then match completion of forms with commencement of and completion of tasks to ensure compliance with safety protocols.

50. The system of claim 49, wherein the logs comprise time stamps.

51. The system of claim 49 or 50, wherein the logs comprise location recording.

52. The system of claim 49, 50 or 51, wherein the logs may comprise other input, such as barcode scan or bear field device scan.

53. The system of claim 14, wherein the system is configured to test a validity period of one or more of a permit or plan or other requirement, and to create an alert if the current time is not within the validity period.

54. The system of claim 14, wherein the system is configured to test the applicability of a valid locality of one or more of a permit or plan or other requirement, and to create an alert if the current location is not within the valid location when an action is commenced requiring the respective permit, plan or other requirement.

55. The system of claim 14, wherein the system is configured to check the requirements for issuance of a permit against records of the actor to which the permit is intended to be issued, and in the event that the requirements are not met raises an alert that the requirements are not met.

56. The system of claim 55, wherein the system is configured such that if permit requirements are not met then the permit is unable to be issued.

57. The system of claim 14, wherein the system is configured to create a JSA by receiving a selection of method steps in the activity for which the JSA is being created, receiving a selection of risks applicable to the selected method steps, receiving a selection of controls to mitigate the selected risks; receiving a selection of a risk rating for each of the selected risks; receiving a selection of one or more personnel to which the JSA is applicable.

58. The system of claim 57, wherein the method steps may be selected from a predefined list of method steps, the risks may be selected from a predefined list

of risks, the controls may be selected from a predefined list of controls, the risk ratings may be selected from a predefined risk rating matrix, and / or the personnel may be selected from a predefined list of personnel assigned to the job for which the JSA is being created.

59. The system of claim 57 or 58, wherein each of the selected personnel are sent a message to request acceptance of the JSA.

60. The system of claim 14, wherein the system is configured to create a risk assessment by receiving a selection of a task to be performed; receiving a selection of a possible risk that may be applicable to the selected tasks; receiving a selection of controls to mitigate the selected possible risks.

61. The system of claim 60, wherein the task may be selected from a predefined list of tasks, the possible risks may be selected from a predefined list of possible risks, and / or the controls may be selected from a predefined list of controls.

62. The system of claim 14, wherein the system is configured to display information about checks to be performed before use of an item of equipment (pre-start); providing a check box for each part of the item of equipment to be checked; receiving a selection when the part is checked; and displaying a message that the item is unable to be used until the checklist is successfully completed.

63. The system of claim 62, wherein if an item in the checklist is selected as a failure of the pre-start check the system is configured to create an alert.

64. The system of claim 63, wherein the item of equipment may be flagged in the database as out of service until it is repaired or replaced.

65. The system of claim 62, wherein the pre-start comprises identifying the item of equipment, for instance by a bar code scan, entry of a serial number or by other means.

66. The system of claim 65, wherein the system is configured to display information relating to the item of equipment or part to be inspected, or how to inspect the part.

67. The system of claim 14, wherein assignment to a job can trigger creation of a geofence by retrieval of information from the database about which actor is carrying the mobile device either should not exit or should not enter; and the mobile device checks the location against the geofence and creates an alert when the geofence is crossed.

68. A system comprising:
a communication channel to a portable device;
a processor configured to receive a selection of a job to be performed by a person in possession of the portable device;
wherein the processor is configured to retrieve and send to the portable device information related to the selected job, the information comprising permits required for the job, plans for implementation of the occupational health and safety aspects of the job, risks associated with the job, equipment used in relation to the job;
the information being suitable for display by the portable device;
wherein the communication channel is configured to receive from the portable device an input received by the portable device relevant to use of the displayed information in relation to performance of the job by the person;
a storage for storing a record of use of the displayed information in relation to performance of the job by the person.

69. A method of providing a document to a user of a mobile computing device, comprising:

identifying a user of the mobile device;
receiving one or more jobs that the user is allocated to from a data repository;
selecting a job from the received jobs;
receiving a role of the identified user in respect of the selected job from the data repository;
selecting a document type;

retrieving a template of the selected document type from the data repository according to the selected job and the selected document type;
displaying the template document to the user;
providing one or more actions to the user for selection;
receiving a selection of one of the actions;
transmitting the selection; wherein the transmission of the selection initiates the selected action.

Populating a portion of the document according to the identified user, the selected job and the received role

Populating a portion of the document according to the selected document type

Providing predetermined selectable entries for the user to select for completion of the document, wherein the selectable entries are able to be appended to

Providing the document with a status commencing when it is created for display to the user and sending the status of the document to the data repository as it is completed, actioned and accessed

The action comprises sending the document to another person for approval